

KSC FORM 16-12 (4/66)

TECHNICAL MANUAL

APOLLO/SATURN V

LAUNCH COMPLEX 39

MOBILE LAUNCHER SERVICE ARMS

OPERATIONS AND MAINTENANCE

* ACB3964

COMMAND MODULE ACCESS ARM SYSTEM
ENVIRONMENTAL CHAMBER

76K03414





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16 MAY 1969

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LIST OF SERVICE ARM RELATED MANUALS

First Level Maintenance:

| TM-500 Service Arm Related Equipment TM-501 S-IC Intertank Service Arm System TM-502 S-IC Forward Service Arm System TM-503 S-II Aft Service Arm System TM-505 S-II Intermediate Service Arm System TM-506 S-IVB Aft Service Arm System TM-507 S-IVB Forward Service Arm System TM-508 Service Module Service Arm System TM-509 Command Module Access Arm System TM-509 Command Module Access Arm System TM-509 Command Module Access Arm System | |
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Second Level Maintenance:

| TM-439 | Pressure Regulators Maintenance Manual |
|--------|--|
| TM-440 | Solenoid Valves Maintenance Manual |
| TM-441 | Hydraulic and Pneumatic Cylinders Maintenance Manual |
| TM-442 | Pilot-operated Valves Maintenance Manual |
| TM-443 | Miscellaneous Components Maintenance Manual |

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SECTION I

DESCRIPTION

1.1 PURPOSE

The purpose of this manual is to provide pertinent operation and maintenance information on the Environmental Chamber as installed on the Apollo/Saturn V Command Module Access Arm.

1.2 ENVIRONMENTAL CHAMBER

- 1.2.1 GENERAL. The Environmental Chamber (Figure 1-1) is mounted on the vehicle end of the Access Arm and serves two important functions. The Chamber provides a work area with a partially controlled environment immediately adjacent to the Command Module and it provides the platform from which entry is made into the Module. The Chamber tracks vehicle motion while coupled to the launch vehicle. The pneumatic system of the Chamber is remotely actuated from the Portable Arm Control Console (PACC) on launcher level 320 or from the Launch Control Center (LCC) to control the connecting to or disconnecting and withdrawing from the vehicle. Connecting and disconnecting is accomplished even while the vehicle is oscillating under extreme conditions. The Environmental Chamber basically consists of the main enclosure assembly which is bolted to the Access Arm and the extension platform assembly.
- 1.2.2 CHAMBER. The main portion of the Chamber is an enclosure that provides a work area and contains the equipment necessary for support of the flight crew prior to launch. Figure 1-2 shows the equipment that is normally found in the Chamber. Circulation of conditioned air is ensured through the use of the exhaust fan. Excess air is "dumped" through the spring loaded doors on the arm side of the Chamber.
- 1.2.3 EXTENSION PLATFORM ASSEMBLY. The extension platform consists mainly of a pneumatically retractable floor, a bellows assembly, a hood adapter, the LES (Launch Escape System) coupler assembly, and the related pneumatic system. After the Access Arm is fully extended, the extension platform is then extended towards the vehicle. The LES coupler assembly functions to ensure proper positioning of the hood adapter against the Command Module. The bellows assembly permits extension and retraction of the platform while maintaining the controlled environment.
- 1.2.3.1 <u>LES Coupler Assembly</u>. The LES coupler assembly (Figure 1-3) positions and holds the hood adapter in physical contact with the Command Module. Horizontal positioning is accomplished mechanically by the guide arms. Vertical positioning is accomplished by a pneumatic actuator with a 21.50 inch stroke. The hooks of the LES coupler are pneumatically opened, spring-loaded closed, and hold the hood adapter in position at the access hatch in the Command Module by grasping the legs of the LES tower. A mechanical actuator and negator spring on opposite ends of the top of the extension platform frame serve to mechanically center the LES coupler assembly whenever the extension platform is retracted. The LES coupler assembly is commonly referred to as the adapter positioning device or APD.
- 1.2.3.2 Hood Adapter Assembly. The hood adapter assembly is that part of the extension platform that forms the seal around the Command Module access hatch to preserve the conditioned environment. The adapter is mounted on rollers and attached to the LES coupler assembly to permit proper vertical and horizontal positioning. A portion of the adapter is made of panels that are held in place by latches and may be quickly removed, if required, under emergency conditions. A soft robber seal provides the padded faying surface between the hood and the Command Module.

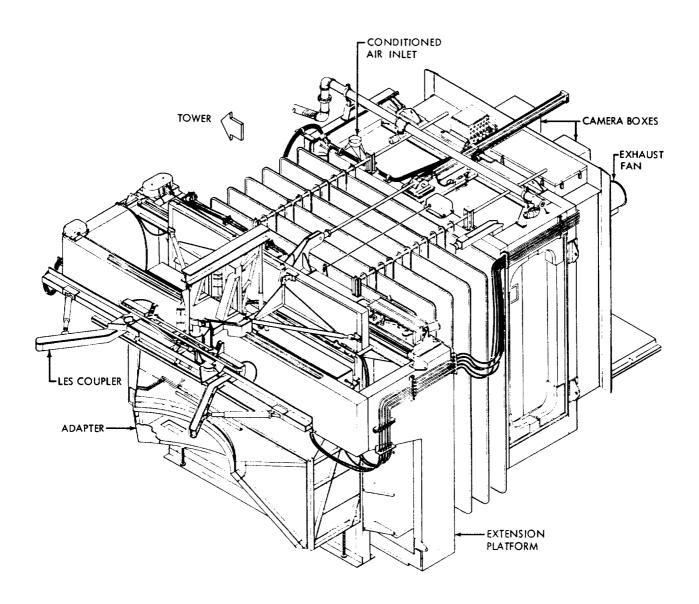


Figure 1-1. Environmental Chamber Assembly

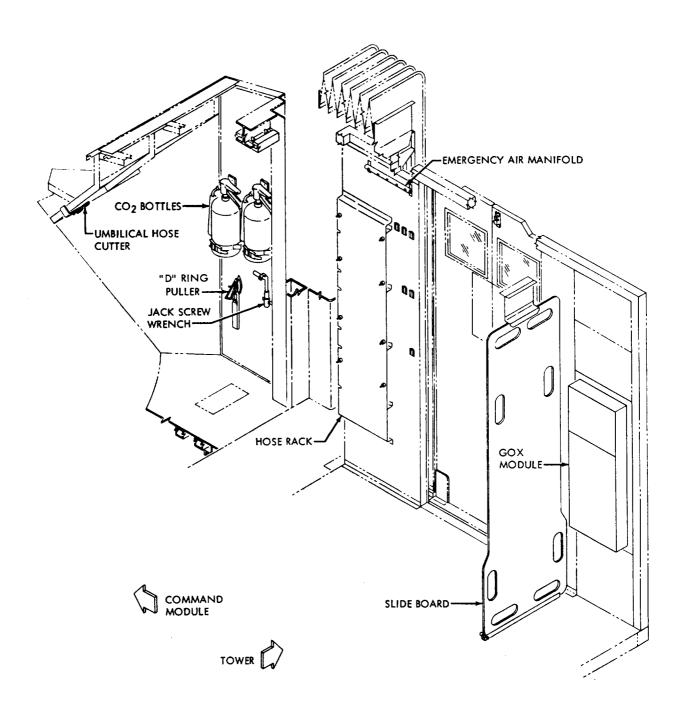


Figure 1-2. Equipment Location (Sheet 1 of 5)

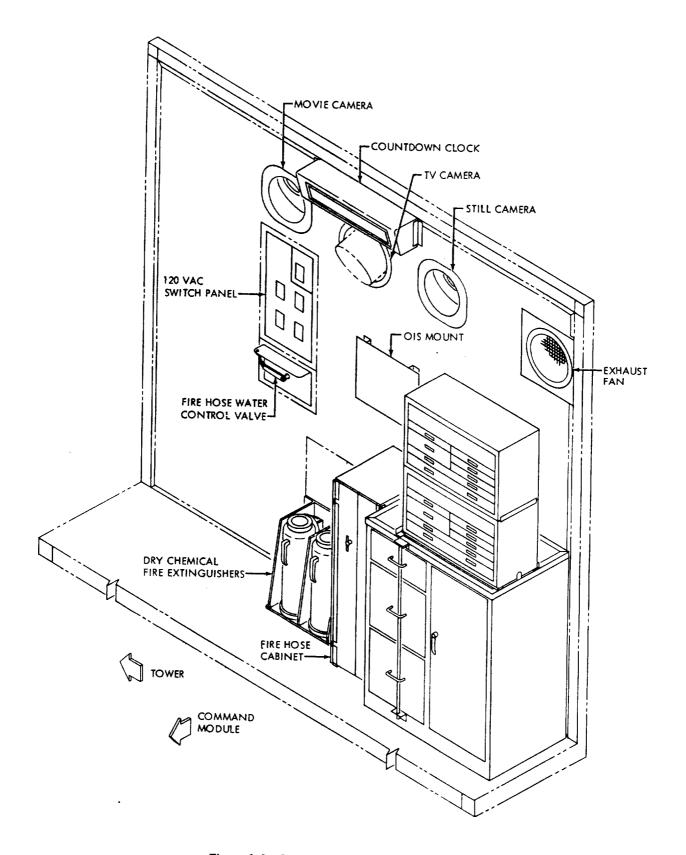


Figure 1-2. Equipment Location (Sheet 2 of 5)

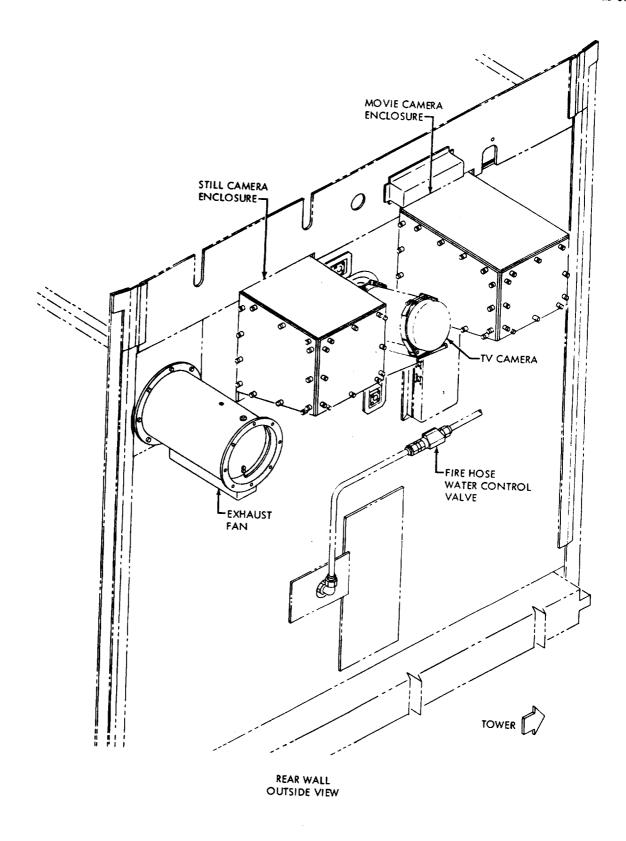


Figure 1-2. Equipment Location (Sheet 5 of 5)

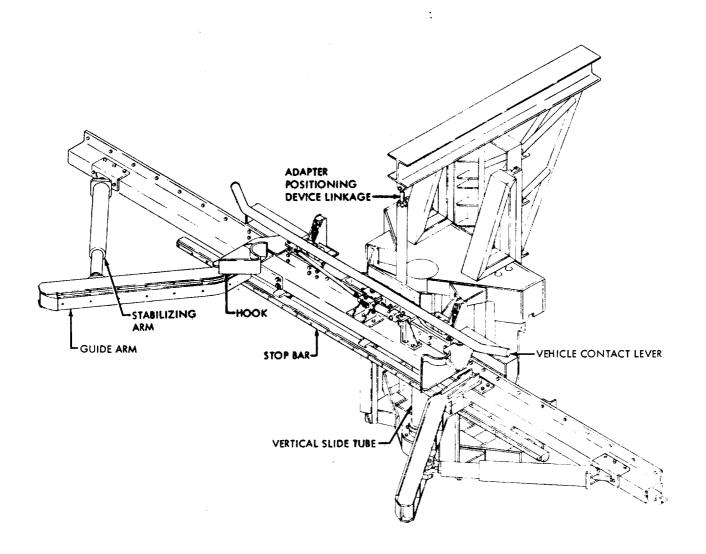


Figure 1-3. LES Coupler Assembly

SECTION III

OPERATION

3.1 GENERAL

Operation of the systems of the Environmental Chamber must be performed in accordance with approved procedures. A partial list of approved procedures includes:

| V-26336 | Command Module Access Arm Environmental Chamber Operation |
|---------|---|
| V-26034 | Command Module Service Arm System Functional Test |
| V-21166 | Command Module Access Arm Electrical Functional Checkout and Support for Mechanical Tests |

3.2 TROUBLE ANALYSIS

Table 3-1 presents some of the possible malfunctions that may be encountered during operation of the various systems of the Environmental Chamber. Section VI contains schematics and a table of component identification by mechanical find number to further aid in trouble analysis. Refer to TM-509 for more complete coverage of the Access Arm related systems.

Table 3-1. Trouble Analysis

| TROUBLE | PROBABLE CAUSE | REMEDY |
|---|---|--|
| 750 psi GN ₂ system No pressure | Valve A34803-9 closed (EC pneumatic inlet) | Open valve (Control Console No. 1) |
| | Line 9101 not connected | Verify proper line connections |
| Low pressure | Excessive pressure drop across filter A34749-9 | Service filter (Control Console No. 1) |
| | Relief valve A34797-9 set too low or malfunctioning | Set at 950 (\pm 50) psi or replace with serviceable unit. |
| | Valve A34804-9 not fully closed (EC pneumatic vent) | Completely close valve. |
| Extension platform extend time not correct | Pressure regulator A34964-9 improperly adjusted or malfunctioning | Adjust to 250 psi or replace with serviceable unit |
| Slow or erratic move- ment of pneumatic | Cylinders damaged or leaking internally | Replace with serviceable unit |
| cylinders | Mechanical linkage binding | Inspect. Adjust or repair as necessary |
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SECTION IV

SPECIAL TOOLS AND EQUIPMENT

4.1 PURPOSE

This section provides descriptive information on the special tools and equipment used to accomplish maintenance of the Environmental Chamber. Table 4-1 lists the equipment part number, nomenclature, and application.

4.2 ENVIRONMENTAL CHAMBER HANDLING EQUIPMENT

The Environmental Chamber handling equipment (Figure 4-1) basically comprises a spreader beam, cable assemblies, and turnbuckles. This equipment is used with an overhead crane to lift the Chamber. The spreader beam is attached to a crane hook by a four-legged cable assembly. A turnbuckle in each leg of the cable assembly provides leveling adjustment. Three short cable assemblies and one turnbuckle extend down from the spreader beam lifting lugs to the Chamber lifting lugs.

4.3 FIXTURE ASSEMBLY

The fixture assembly (Figure 4-2) is used to properly position the actuating arm in the mechanical actuator of the hood adapter centering device during cable and negator spring adjustment. After adjustment, the fixture is removed from the pivot bracket and bolted to the actuator base in a place provided for this purpose.

Table 4-1. Special Tools and Equipment

| FIGURE NUMBER | PART NUMBER | NOMENCLATURE | APPLICATION |
|------------------|----------------|--------------------|---|
| 4-1 | 75M12600-1 | Handling equipment | Provides spreader beam with adjustable cable assemblies for lifting Chamber prior to installation on or during removal from the Command Module Access Arm |
| 4-2 | 76K03503-1 | Fixture assembly | Provides positioning lock for mechanical actuator during adjustment of centering device cables |
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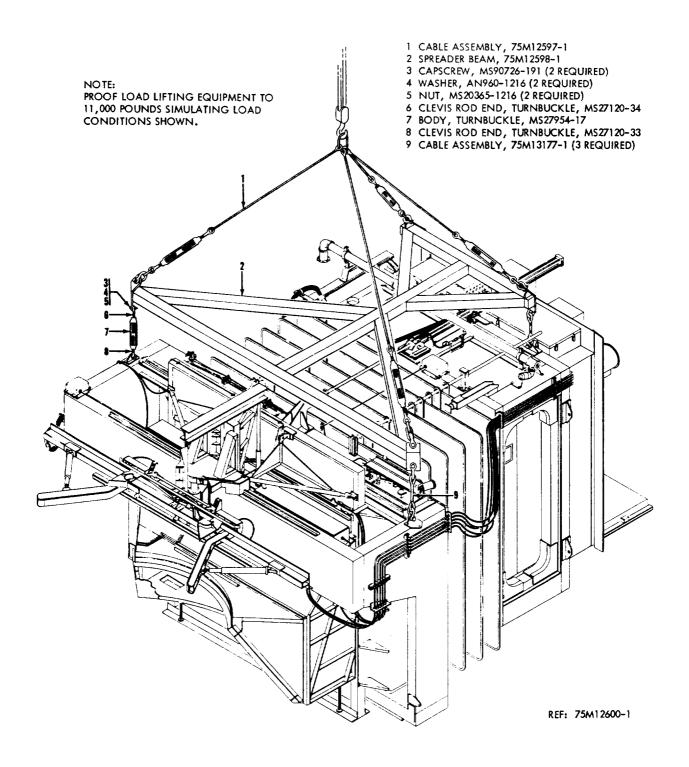
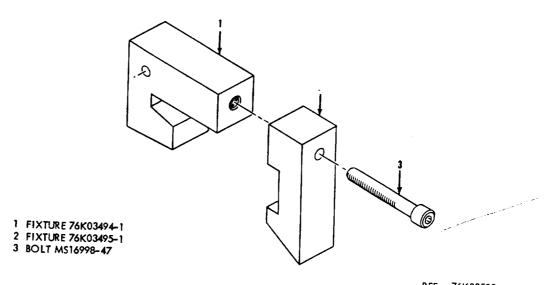


Figure 4-1. Environmental Chamber Lifting Equipment



REF: 76K03503

Figure 4-2. Actuator Locking Fixture Assembly

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- i. Attach Chamber to arm with the following hardware:
 - (1) Upper shim (75M19717-1), 2 required, narrow end up
 - (2) Lower shim (75M19718-1), 2 required, narrow end up
 - (3) Cap screws, MS90727-115 through MS90727-121, 24 required
 - (4) Washers, AN960-816, 48 required
 - (5) Nuts, MS20365-820, 24 required

NOTE

One upper and one lower shim are used between the Chamber and each side of the Arm. Exact screw length is determined on installation. MS90727-118 is the longest screw that is to be used in the uppermost holes and MS90727-121 is the longest screw for the bottom holes.

- j. Install MSS seal panel from Arm to Chamber using bolts (AN5DD7A), washers (AN960PD516, two per bolt),
- 5.1.3 FLUID SERVICE LINE CONNECTION. Connect the fluid service lines from the Access Arm to the Environmental Chamber as listed in Table 5-1. Observe the following:
 - a. Tubing and fittings are to be installed in accordance with KSC-SPEC-Z-0008.
 - b. Tubing is to be color coded in accordance with KSC-STD-S-0004.
 - c. When working with open lines, use care to avoid system contamination. Line openings are to be plugged or capped at all times except when connected to system.

Table 5-1. Arm-to-Chamber Fluid Service Connections

| LINE CODE | CHAMBER INTERFACE | SERVICE |
|--|--|---|
| 9001 9004 9005 9006 9007 9008 9009 9011 9101 | A11092/A16035 A11141 A11135/A16036 A11139/A16055 A11084 A11137 A11222/A16048 A34659 A6354-9 A36209 | 250 psi conditioned oxygen 100 psi emergency air O2 sensing 150 psi GHe (purge) Environmental control 50 psi GN2 (purge) 150 psi GN2 (purge) 200 psi H2O (fire protection) 750 psi GN2 (actuation) 100 psi H2O (LES cooling) |

- 5.1.3.1 Environmental Duct. The environmental duct (75M15599-1) completes line 9007 from the Arm to the Environmental Chamber. Use care to avoid system contamination whenever the duct is disconnected or removed from the system. The duct is installed as follows:
 - a. Secure flanged end of duct to arm duct with a gasket (75M10675-3), 12 bolts (AN4-10A), 12 washers (AN960-416), and 12 nuts (AN363-428).
 - b. Secure sleeve end to Chamber duct with a clamp (MARMAN 550-C-100-625-M).
- 5.1.4 ELECTRICAL CABLE CONNECTION. Connect the electrical cables from the Access Arm to the Environmental Chamber as listed in Table 5-2. Observe the following:
 - a. Electrical cables are fabricated in accordance with KSC-E-165.
 - b. Electrical cables are installed in accordance with KSC-E-166.
 - c. Where cable diameter is too small for cable clamp, wrap cables as required with asbestos (P/N 87M94, McMaster-Carr, 39428) and tape (P/N 405-1165C-PSA, Minnesota Mining & Mfg. Co., 76381). Firm clamping is essential to prevent chafing and to keep cables in a bundle where slack is provided.
 - d. Protection caps must be installed on connectors at all times except when connectors are mated with each other.

Table 5-2. Arm-to-Chamber Electrical Connections

| CABLE | CONNECTOR | CONNECTS TO | FUNCTION |
|------------------|-----------|----------------------|---------------------------|
| 57A55A27W1 | P1 | 57A55A27J1 | OIS Unit #1 |
| 57A55A27W2 | P1 | 57A55A27J2 | OIS Unit #2 |
| 57A55A27W3 | P1 | 57A55A27J3 | OIS Unit #3 |
| 57A55A27W4 | P1 | 57A55A27J4 | CDC Display Unit |
| 9075A324W1 | P2 | 57A55A16J1 | 16 MM Camera |
| 9075A325W1 | P2 | 57A55A17J1 | 35 MM Camera |
| 9048A30W4 | P2 | 57A55A28J1 | OTV Camera |
| 9048A32AW2 | P2 | 57A55A29J1 | OTV Camera Plugs |
| 6327A6W1 | P2 | 57A55A18J3 | Remote Exhaust Fan Switch |
| 6327A2W1 | P2 | 57A55A18J1 | 120 VAC Input |
| 6357A55A2W1 | P2 | 57A55A2J1 | Control Distributor |
| 6320A1W5 (W0727) | P2 | 6320A1J5 | Terminal Distributor |
| 6320W7 (W0231) | P2 | 6320A1J7 | Terminal Distributor |
| 6320W9 (W0402) | P2 | 6320A1J9 | Terminal Distributor |
| 32C06 | | Linear Potentiometer | |
| 32C07 | | Linear Potentiometer | |
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5.2 MAINTENANCE

- 5. 2.1 ADJUSTMENTS. In-service adjustments necessary for proper positioning and operation of the Environmental Chamber are listed in Table 5-3.
- 5. 2. 2 TORQUE VALVES. Threaded fasteners are normally torqued in accordance with ABMA-STD-18. Exceptions are listed in Table 5-4.
- 5.2.3 SPECIAL MATERIALS. Table 5-5 lists special materials that are used in maintaining the Environmental Chamber.
- 5.2.4 STANDARD PRACTICES. The following listed design standards are to be observed in the performance of system and equipment maintenance.
 - a. Lockwire is to be installed per MS33540.
 - b. Helical coil threaded inserts are to be installed per MS33646.

| COMPONENT | ADJUST TO | FIGURE REFERENCE | DRAWING REFERENCE |
|---|--|---------------------|----------------------|
| LES coupler (APD) | Correct distance between centerline of pivot (76K03248-1) and aft face of bumper (76K03251-1) is obtained by shimming as required. | 5-2 | 76K03242 |
| APD linkage (76K03243-1) | 22.50 (± 03) inches between centers of upper and lower attaching bolts. | 5-3 | 76K03242 |
| APD positioning cylinder (A34988-9) | Retracted: 30.18 (±.03) inches between centers of upper and lower attaching bolts. | 5-3 | 76K03242 |
| Hood linkage | 77.75 (\pm .03) inches from underside of APD down bar to extension platform floor | 5~3 | 76K03384 |
| | 43-58 (± 03) inches between center of bolt attaching upper end of hood linkage to lift beam and lower surface of hood adapter cross-beam. Final adjustment of clevis bracket (76K03405-1) is made during test. | | |
| Adapter ositioning evice | APD centered with fixture (76K03503-1) holding actuator arm in position. Negator spring (76K03855-1) extension is 5.00 (±.03) inches from outside of cover to centerline of cable attach hold in spring end plates. Final length of centering cables (76K03401 and 76K03848-1) is determined during installation and adjustment. | 5-4 | 76K03384 |
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Table 5-4. Torque Values

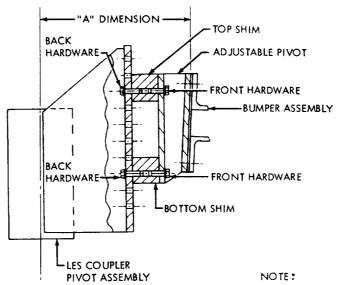
| PART NUMBER | DESCRIPTION | TORQUE |
|--------------------|--|-------------|
| MS90727-62 | Capscrew, attaches 76K03251-1 bumper assembly to guide arm (16 required) | 50 ft. lbs. |
| 12521 (Code 91796) | Wire rope clamps, used on 76K0340-1 and 76K03848-1 cable assemblies | 20 ft. lbs. |
| | | |

Table 5-5. Special Materials (Sheet 1 of 2)

| MATERIAL | SOURCE | USE |
|---|---|--|
| RTV731 Silastic Sealant | Dow Corning Corp. (Code Ident: 71984) | Seal all structural mating surfaces |
| Loctite Sealant #84 Grade "C" | Loctite Corp. (Code Ident: 05972) | Applied to threads of capscrews prior to installation in rivnuts. |
| A-4000 Adhesive | Dow Corning Corp. (Code Ident: 71984) | Bonding gaskets and lacings in place |
| 12-007 Hysol | Hysol Corp. (Code Ident: 04347) | Clear, protective coating |
| MIL-S-40083 | | Coat nut threads of grounding lug in distributor box 57A55A2 |
| Primer: Super Koropon High Temperature #34127 green 910-174 curing solution 515-019 Primer Base | Desoto Chemical Coatings, Inc. (Code Ident: 22873) | Interior finish of Environmental Chamber |
| Enamel: Silicone Hi Heat Enamel, white 761-100 Enamel Base | | |
| 910-023 Activator | | |
| Primer: MIL-P-8585, MIL-P-15930, or MIL-P-52192 | | Exterior finish for Environmental Chamber - two coat full gloss alkyd enamel. (Ref. MIL-STD-171, finish 22.2) |
| Top Coat: TT-E-489 (Color No. 17875 (White) | | |

Table 5-5. Special Materials (Sheet 2 of 2)

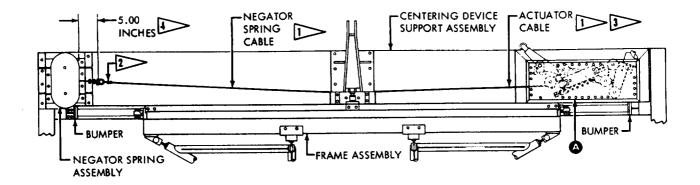
| MATERIAL | SOURCE | USE |
|--|--|--|
| Adhesive, seal kote NB1-99 | North Brothers, Inc. Birmingham, Ala. | Insulates transition duct between air conditioning flex duct from Access Arm and Chamber conditioned, air inlet duct. (See Figure 5-4) |
| Insulation, flexible, vaporseal NB1-60 1 inch thick | · | |
| Aluminum jacketing NB1-93 .016 thick | | |
| Tape, aluminum foil NB1-140 2 inches wide | | |
| Clip NB1-152 3/8 inch | | |
| Strapping NB1-151 3/8 X. 020 | | |
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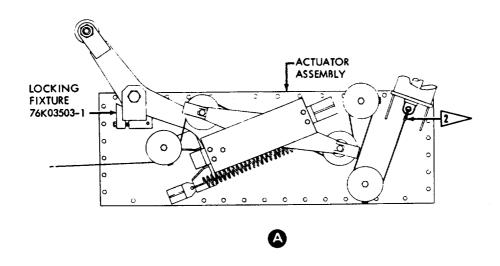


FINAL DETERMINATION OF SHIMS USED IS MADE FROM "A" DIMENSION WHEN SYSTEMS ARE IN OPERATION.

| | SH | IM | | ATTACHING HARDWARE | | | | |
|-------|------------|------------|------------|--------------------|---------------|---------|-------------|--|
| "A" | ТОР | воттом | FRONT | NO.REQD | BACK | NO.REQD | ITEM | |
| 12,00 | 76K03231-8 | 76K03231-7 | MS90727-59 | 8 EA | MS90727-61 | 8 EA | BOLT | |
| 12.00 | 2,500 | 2.500 | MS35338-46 | | MS35338-46 | | LOCK WASHER | |
| | 76K03231-6 | 76K03231-5 | MS90727-59 | 2.54 | MS90727-61 | 0.51 | BOLT | |
| 11.50 | 2.000 | 2.000 | MS35338-46 | 8 EA | MS35338-46 | 8 EA | LOCK WASHER | |
| | 76K03231-4 | 76K03231-3 | MS90727-59 | 8 EA | MS90727-61 | 8 EA | BOLT | |
| 11.00 | 1.500 | 1.500 | MS35338-46 | | M\$35338-46 | | LOCK WASHER | |
| | 76K03231-2 | 76K03231-1 | MS90727-59 | 8 EA | MS90727-61 | 8 EA | BOLT | |
| 10.62 | 1.125 | 1.125 | MS35338-46 | | MS35338-46 | | LOCK WASHER | |
| | | ×00017.0 | NC250(1 21 | | NAS184-6-616L | | STUD | |
| 10.00 | | K03217-2 | MS35961-21 | 8 EA | AN960-616L | 8 EA | FLAT WASHER | |
| | 0. | 500 、 | TUM MAL | | MS21044N6 | | LOCK NUT | |
| | | | MS90727-64 | 2.51 | MS21044N6 | 0.51 | LOCK NUT | |
| 9.50 | | | CAP SCREW | 8 EA | AN960-616 | 8 EA | FLAT WASHER | |

Figure 5-2. LES Coupler Shim Installation





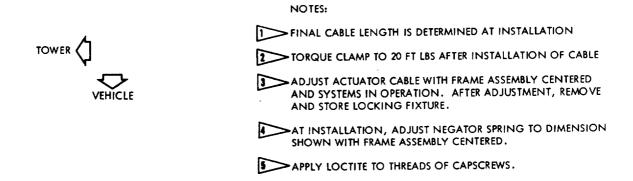


Figure 5-3. Centering Device Adjustment

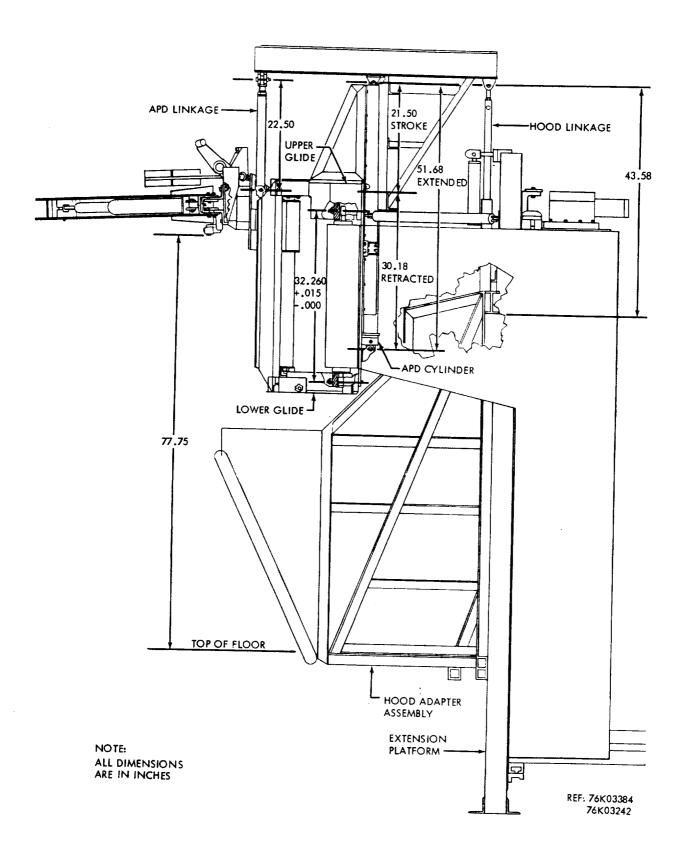
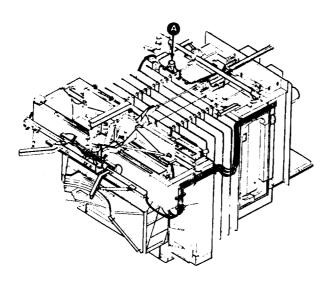
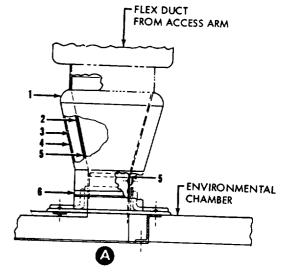


Figure 5-4. LES Coupler and APD Adjustments



- 1 ALUMINUM FOIL TAPE, 2 INCHES WIDE
 2 SEAL KOTE ADHESIVE, APPLIED TO 5
 3 FLEXIBLE VAPORSEAL INSULATION!, 1 INCH THICK
 4 ALUMINUM JACKETING, 016 INCH THICK
 5 TRANSITION DUCT, 76K03167-1

- 6 CLIP, 3/8 INCH 7 STRAPPING, 3/8 INCH X .020 INCH



REF: 76K03148 REV B

Figure 5-5. Transition Duct Insulation

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Table 6-1. Component Designator List (Sheet 2 of 7)

| FIND NUMBER | ELEC REF DES | PART NUMBER | DESCRIPTION | REMARKS AND REFERENCE FIGURE NUMBER |
|----------------|----------------------|------------------------------|--|---|
| A16055 | | MC164C4 | Union, bulkhead | Helium supply |
| A16056 | | 75M51088-4 | Gage, pressure, 0 - 300 psi Glassco Instrument Co., Pasadena, Calif. G2300-300 | Helium supply |
| A16057 | | 75M01305-1 | Valve, manual Robbins Aviation, Los Angeles, Calif. SSNA250-4C-787 | Helium vent |
| A16058 | | 75M01305~1 | Valve, manual Robbins Aviation, Los Angeles, Calif. SSNA250-4C-787 | Helium supply |
| A16059 | | MC164C8 | Union, bulkhead | Helium supply |
| A16060 | | 75M50450-3 | Cap assembly | Helium supply |
| A16061 | | 75M51313-1 (75M51630-434) | Valve, vent check James, Pond & Clark, Pasadena, Calif. P4-698T1 | Helium vent |
| PNEUMATI | C S YSTE | M M | | |
| A34932-9 | | 75M50562-1 | Orifice, bulkhead union A. U. Stone, New York, N. Y. H228-031 | Environmental Chamber distributor box purge |
| A34933-9 | | 75M02047 | Plate, calibrated bleed Del Manufacturing, Los Angeles, Calif. 10023 | Distributor purge vent |
| A34934-9 | | 76K03230-1 | Cylinder assembly, pneumatic operating pressure, 750 psi | Hooks open |
| A34935-9 | | 76K03230-1 | Cylinder assembly, pneumatic operating pressure, 750 psi | Hooks open |
| A34936-9 | | | | Pneumatic reservoir |
| A34937-9 | 57A55 A1A5 | 10425701-2 | Valve, 3/8-inch solenoid operated, Marotta Valve Corp., Boonton, N.J. MV123K | Hooks open control valve No. 1 |
| A34938-9 | 57A55 | 10425701-2 | Valve, 3/8-inch solenoid operated, Marotta Valve Corp., Boonton, N.J. MV123K | Hooks open control valve No. 2 |
| A34939-9 | | 75M51630-634 | Valve, check, vent Marotta Valve Corp., Boonton, N.J. 232783-634 | Hooks open cylinder vent |
| A34940-9 | | 75M50562-1 | Orifice, bulkhead union A. U. Stone Co., New York, N.Y. H228-031 | Pneumatic box purge control |
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| | | | 1 : | |

Table 6-1. Component Designator List (Sheet 3 of 7)

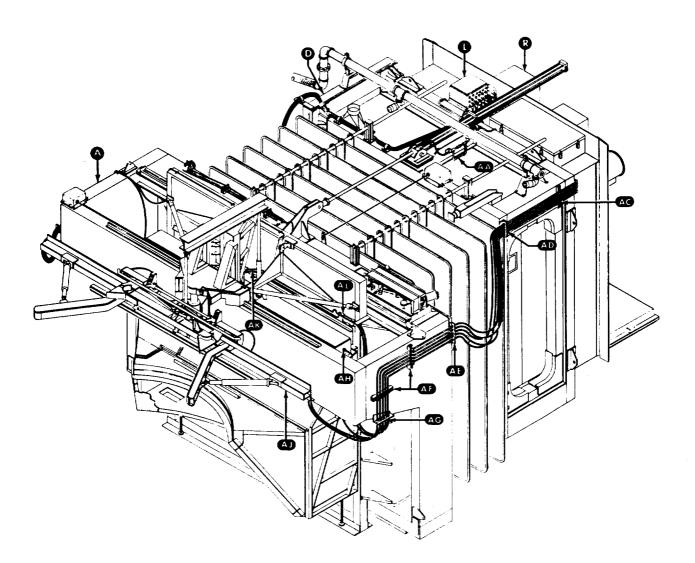
| FIND NUMBER | ELEC REF DES | PART | DESCRIPTION | REMARKS AND REFERENCE FIGURE NUMBER |
|----------------|--------------------|--------------|---|---|
| A34941-9 | | 75M51695-2 | Orifice, flow restricting Ausco, Inc., New York, N. Y. P881-2 | Purge linear potentiometer 32C07 |
| A34942-9 | | 75M51695-2 | Orifice, flow restricting Ausco, Inc., New York, N. Y. P881-2 | Purge linear potentiometer 32C06 |
| A34943-9 | | 76K03084 | Valve, ball, 1-inch firehose Jamesbury Corp., Worcester, Mass. | Firewater shutoff |
| A34944-9 | | 75M51630-634 | Valve, check, vent Marotta Valve Corp., Boonton, N. J. 232783-634 | Hooks open cylinder vent |
| A34945-9 | | | Nozzle, myster fog Miami Fire Equipment Co., Miami, Fla. S-200 | Firewater spray |
| A34946-9 | | 75M02047 | Plate, calibrated bleed Del Manufacturing, Los Angeles, Calif. 10023 | Countdown timer purge vent |
| A34947-9 | | 75M50562-1 | Orifice, bulkhead union A. U. Stone Co., New York, N. Y. H228-031 | Countdown timer purge |
| A34948-9 | | 75M02047 | Plate, calibrated bleed Del Manufacturing, Los Angeles, Calif. 10023 | Still camera purge vent |
| A34949-9 | 57A55 A1A1 | 10425701-2 | Valve, 3/8-inch solenoid operated, Marotta Valve Corp., Boonton, N. J. MV123K | Extension platform retract supply valve No. 1 |
| A34950-9 | | 10426693 | Valve, 1/4-inch check, circle seal James, Pond & Clark, Pasadena, Calif. P279T1-4TT | Extension cylinder control |
| A34951-9 | | 76K03578-1 | Orifice, flow restricting A. U. Stone Co., New York, N. Y. H92C-047 | Extension cylinder flow control |
| A34952-9 | | 76K03824 | Cylinder, pneumatic, operating pressure 750 psi Miller Fluid Power Division, Bensenville, III. | Retract extension plat- form |
| | 57A55 A1A10 | 10425701-2 | Valve, 3/8-inch solenoid operated, Marotta Valve Corp., Boonton, N. J. MV123K | Extension platform retract block valve |
| 34954-9 | | 75M51630-634 | Valve, check, vent Marotta Valve Corp., Boonton, N. J. 232783-634 | Valve, block vent |
| | | | | |

SECTION VII

PARTS AND COMPONENT ASSEMBLIES

7.1 GENERAL

This section contains illustrated parts breakdowns. Parts purchased from approved manufacturers are identified by the manufacturer's part number. The manufacturer's federal supply code (FSC) is listed in parentheses in the Description column. Refer to Cataloging Handbook H4-2. Code to Name, for the manufacturer's name and address. Equivalent substitutions of standard parts are authorized per 76K04427.



| LINE CODE | LINE | LINE SIZE | OPERATING PRESSURE - PSIG |
|--------------|-------------------|--------------|---------------------------|
| (A) | GN₂ PURGE | 3/8 & 1/4 | 50 |
| F | EMERGENCY AIR | 1/2 | 400 |
| <u>©</u> | GN2 ACTUATION | 3/8 | 750 |
| M | WATER, FIRE HOSE | 1 | 100 |
| R | PLATFORM, RETRACT | 3/8 | 750 |
| <u>(S)</u> | PLATFORM, EXTEND | 3/8 | 250 |
| T | APD DOWN | 1/4 | 750 |
| (U) | APD UP | 1/4 | 750 |
| \bigcirc | HOOKS OPEN | 1/4 | 750 |
| W | HOOKS OPEN | 1/4 | 750 |

Figure 7-1. Tubing Installation (Sheet 1 of 17)

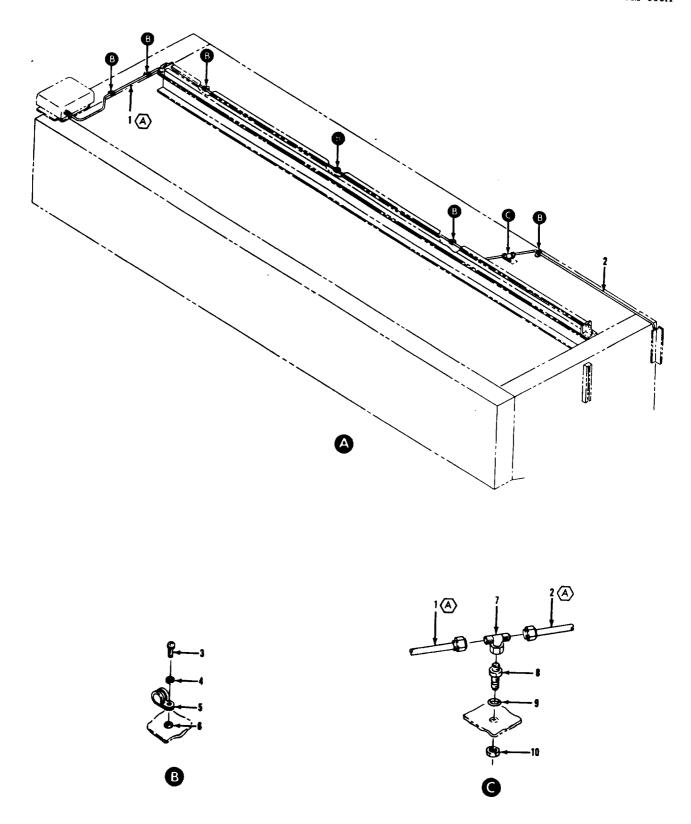


Figure 7-1. Tubing Installation (Sheet 2 of 17)

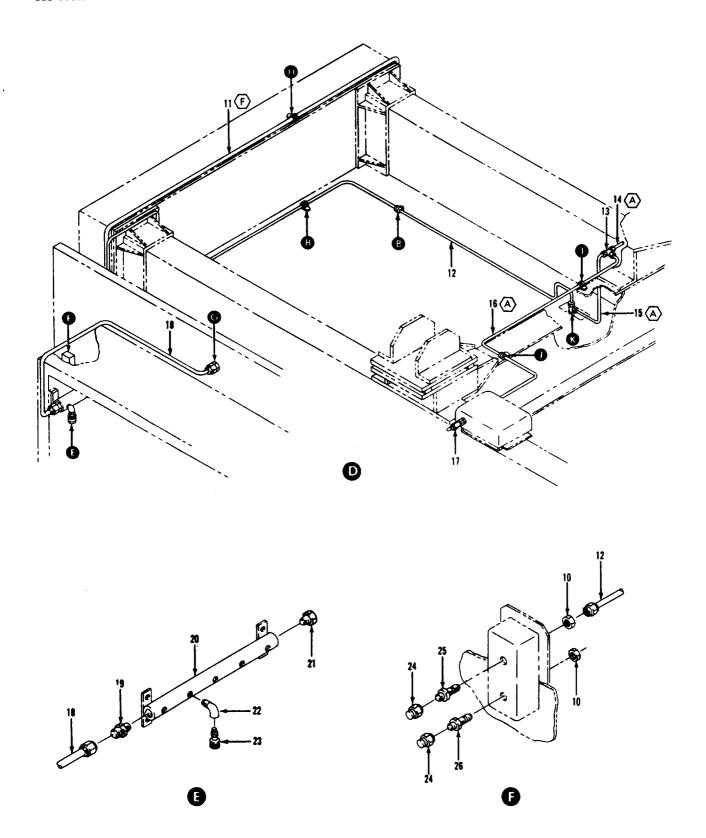


Figure 7-1. Tubing Installation (Sheet 3 of 17)

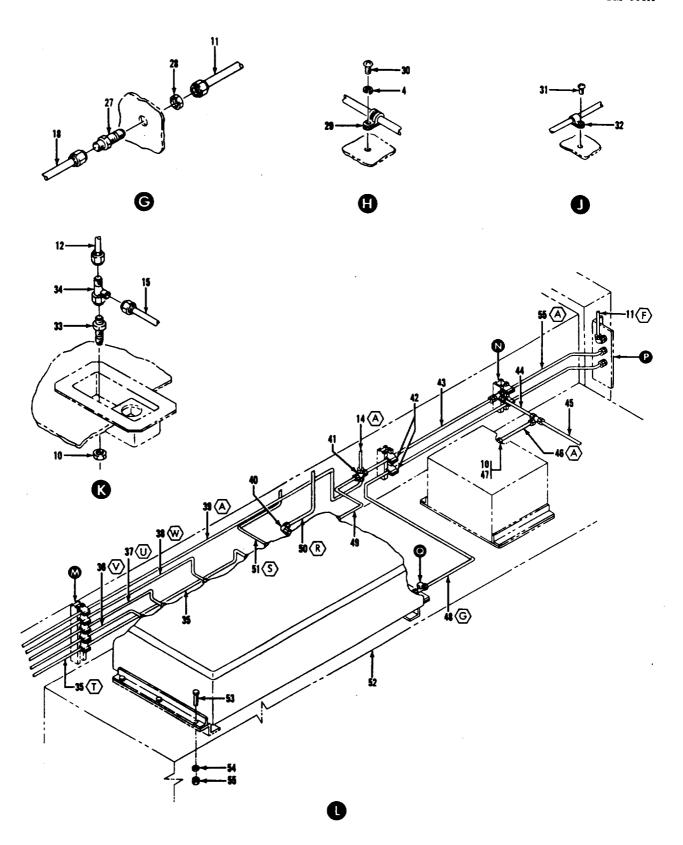


Figure 7-1. Tubing Installation (Sheet 4 of 17)

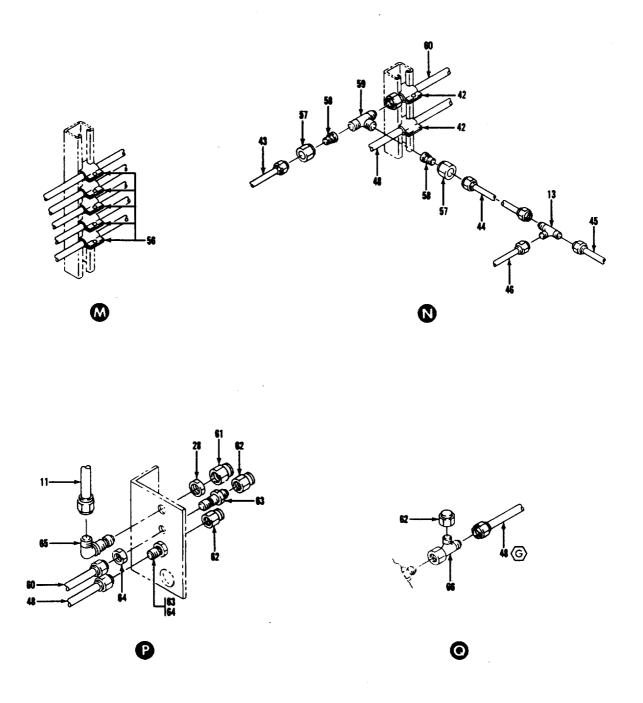


Figure 7-1. Tubing Installation (Sheet 5 of 17)

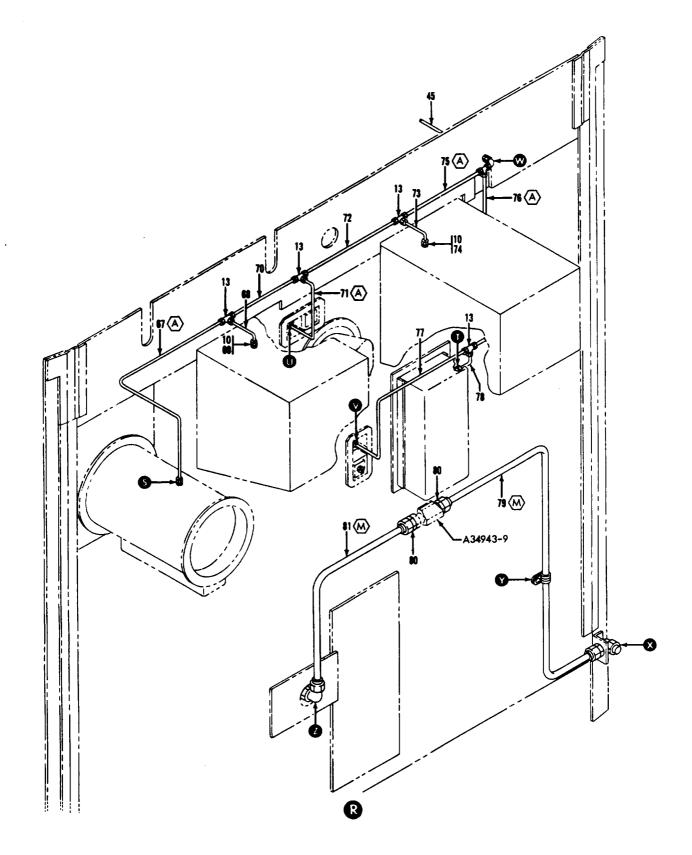
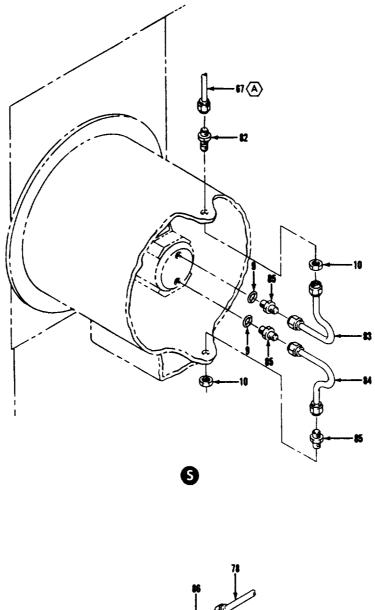


Figure 7-1. Tubing Installation (Sheet 6 of 17)



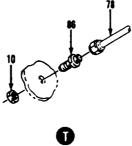


Figure 7-1. Tubing Installation (Sheet 7 of 17)

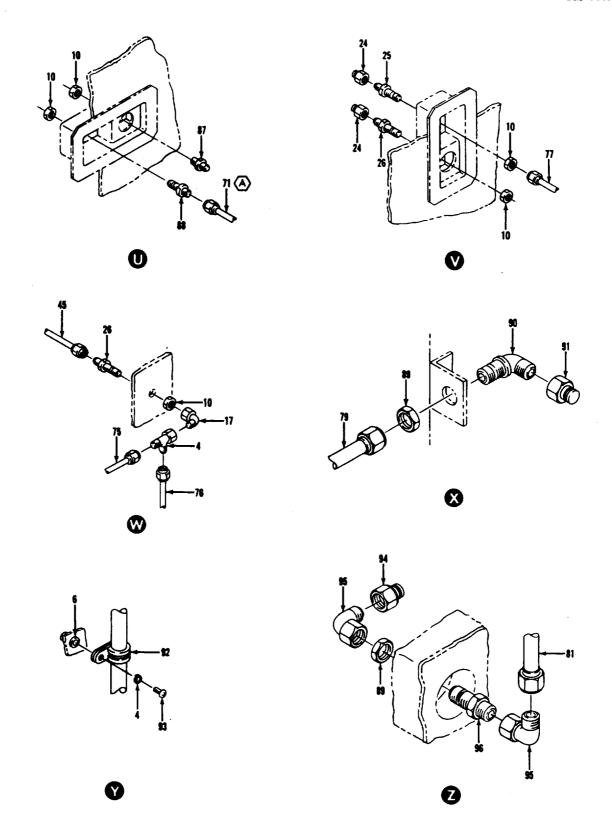


Figure 7-1. Tubing Installation (Sheet 8 of 17)

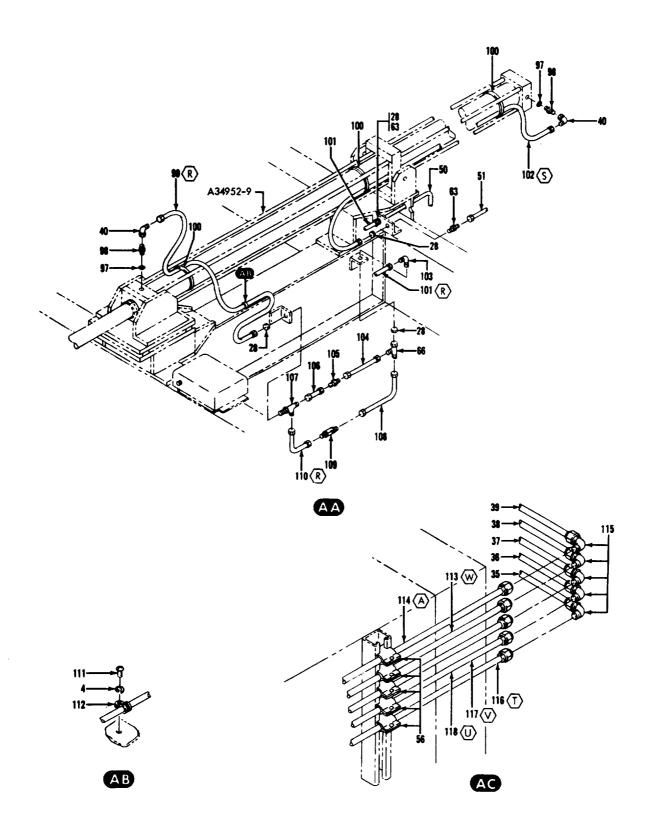
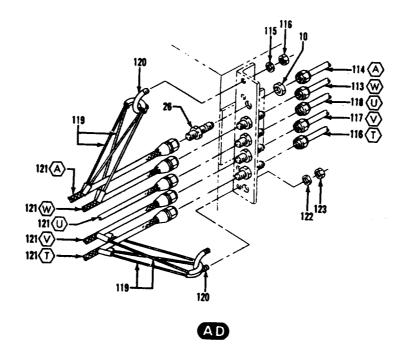


Figure 7-1. Tubing Installation (Sheet 9 of 17)



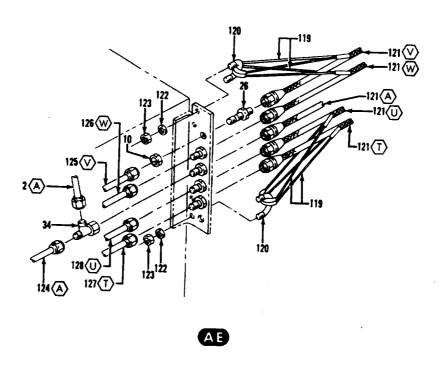


Figure 7-1. Tubing Installation (Sheet 10 of 17)

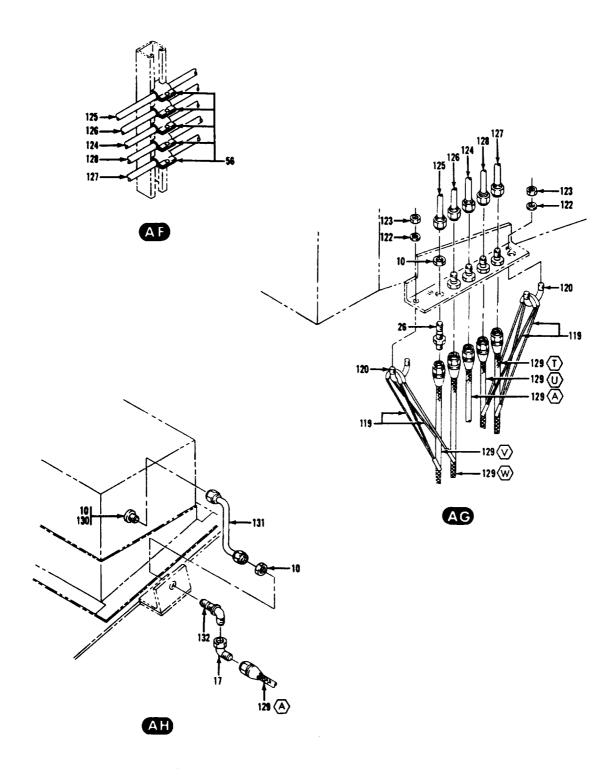


Figure 7-1. Tubing Installation (Sheet 11 of 17)

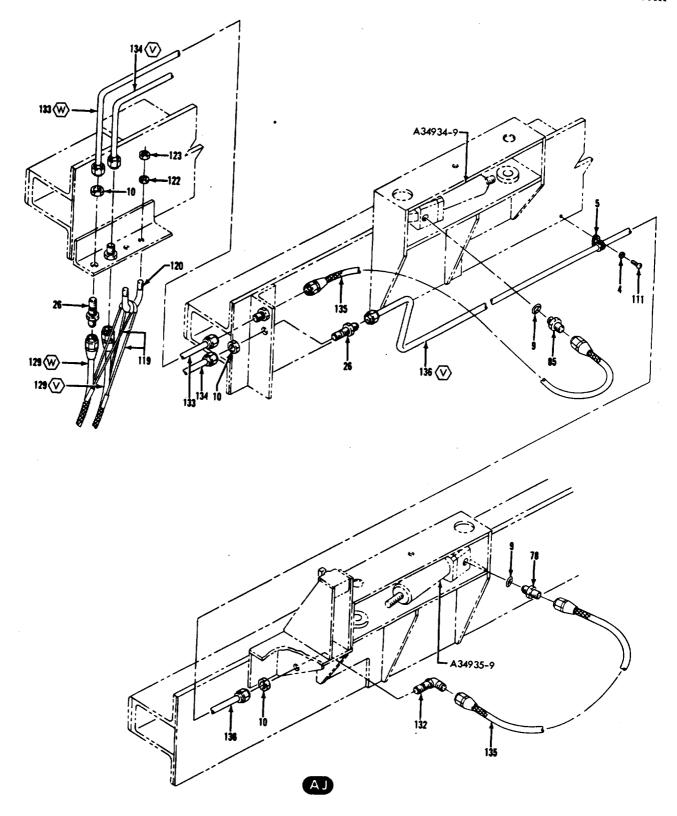


Figure 7-1. Tubing Installation (Sheet 12 of 17)

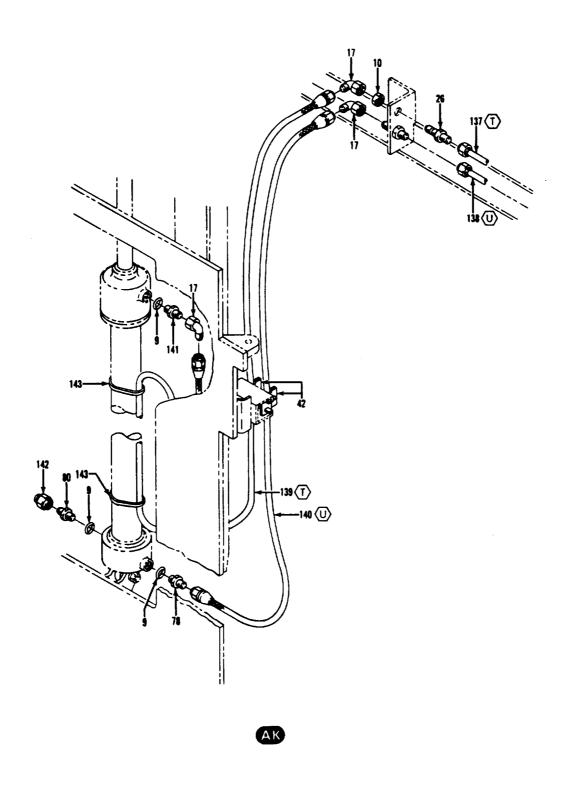


Figure 7-1. Tubing Installation (Sheet 13 of 17)

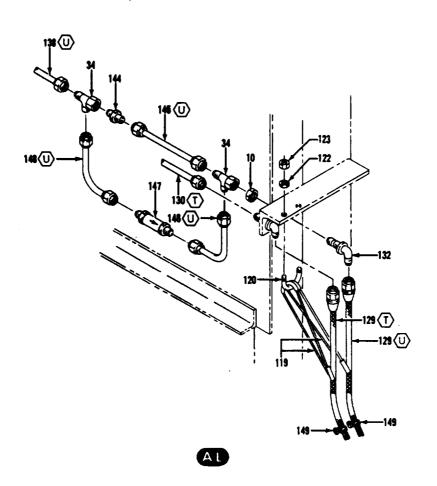


Figure 7-1. Tubing Installation (Sheet 14 of 17)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PE |
|-----------------|---------------------------------|---------------------------|-------------------------|----------|
| | TUDING INCTALLATION | | | |
| | TUBING INSTALLATION MODIFIED BY | 76K03038-2 | | Х |
| | f · | 76K30482-2 | | X |
| 1 2 | TUBE ASSEMBLY | 76K03048-100 | | 1 |
| 3 | TUBE ASSEMBLY | 76K03048-75 | | 1 |
| 3 4 | SCREW | MS51958-63 | | 7 |
| | WASHER | MS35338-43 | | 17 |
| 5 | CLAMP, CUSHIONED | MS21919H4 | | 7 |
| 6 | NUT, BLIND RIVET | NAS1329A3-130 | | 14 |
| 7 | TEE ASSEMBLY | KC109C4 | | 1 |
| 8 | ORIFICE, BULKHEAD UNION | 75M50562-1 | A34976-9 | 1 |
| 9 | PACKING | MC266E904 | | 16 |
| 10 | NUT | MC174C4 | | 42 |
| 11 | TUBE ASSEMBLY | 76K03048-44 | | 1 |
| 12 | TUBE ASSEMBLY | 76K03048-102 | | 1 |
| 13 | TEE | KC123C4 | | 6 |
| 14 15 | TUBE ASSEMBLY | 76K03048-97 | | 1 |
| 16 | TUBE ASSEMBLY | 76K03048-98 | | 1 |
| 16 17 | TUBE ASSEMBLY | 76K03048-96 | | ,1 |
| | ELBOW, SWIVEL | KC131C4 | | 8 |
| 18 | TUBE ASSEMBLY | 76K03048-103 | } | 1 |
| 19 | NIPPLE | KC116C8-6 | | 1 |
| 20 | MANIFOLD | 76K03129 | A34994-9 | 1 |
| 21 | PLUG, PIPE | AN933-3 | | 1 |
| 22 | ELBOW | AN914-1C | | 5 |
| 23 | SOCKET, COUPLING (73061) | 2900 | | 5 |
| 24 | CAP ASSEMBLY | KC150C4 | | 3 |
| 25 | ORIFICE, BULKHEAD UNION | 75M50562-1 | i | 2 |
| 26 | UNION, BULKHEAD | KC124C4 | | 23 |
| 27 | UNION, BULKHEAD | KC124C8 | | 1 |
| 28 | NUT | KC174C8 | | 6 |
| 29 | CLAMP, CUSHIONED | MS21919H8 | | 6 |
| 30 | SCREW | MS51958-64 | | 1 |
| 31 | SCREW | NAS603-6B | | 2 |
| 32 33 | CLAMP | MS21104-4 | | 2 |
| 33 34 | ORIFICE, BULKHEAD UNION | 75M50562-1 | A34965-9 | 1 |
| 35 | TEE, SWIVEL ON RUN | KC107C4 | | 4 |
| 36 | TUBE ASSEMBLY | 76K03048-96 | | 1 |
| 37 | TUBE ASSEMBLY | 76K03048-95 | | 1 |
| 38 | TUBE ASSEMBLY | 76K03048-94 | | 1 |
| 39 | TUBE ASSEMBLY | 76K03048-93 | | 1 |
| 40 | TUBE ASSEMBLY | 76K03048-92 | | 1 |
| 41 | ELBOW, SWIVEL | KC131C6 | | 3 |
| 42 | CROSS CLAMB UNISTBUT (TEXA2010) | KC117C4 | | 1 |
| 43 | CLAMP, UNISTRUT (76K03019) | P2025 | | 6 |
| 44 | TUBE ASSEMBLY TUBE ASSEMBLY | 76K03048-41 | | 1 |
| 45 | TUBE ASSEMBLY | 76K03048-32 | ! | 1 |
| 46 | TUBE ASSEMBLY | 76K03048-77 | | 1 |
| 47 | ORIFICE, UNION | 76K03048-33 | 434030 0 | 1 |
| 48 | TUBE ASSEMBLY | 75M50562-1 76K03048-43 | A34932-9 | 1 |
| 49 | TUBE ASSEMBLY | | | 1 |
| 50 | TUBE ASSEMBLY | 76K03048-39 | | 1 |
| 51 | TUBE ASSEMBLY | 76K03048-83 | | 1 |
| 52 | PNEUMATIC BOX ASSEMBLY | 76K03048-84 | | 1 |
| 53 | BOLT | 76K03039-1 | | 1 |
| 54 | WASHER | AN4C6A | | 6 |
| 55 | NUT | AN960-416 | | 6 |
| 56 | CLAMP, UNISTRUT (76K03019) | MS21045-C4 | | 6 |
| | CTITIL, CHIMITIOI (IOMOSOIS) | P2024 | | 20 |

Figure 7-1. Tubing Installation (Sheet 15 of 17)

| INDEX | | | DEPENDENCE | T |
|------------|--|-----------------------------|-------------------------|-----------------------|
| NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
| | 1 2 3 4 | | DESIGNATOR | ASSEMBLI |
| 57 | NUT, COUPLING | 77.01.49.00 | | ļ _ |
| 58 | REDUCER ADAPTER | KC142C6 | | 2 |
| 59 | TEE ADAPTER | KC106C6-4 KC123C6 | | 2 |
| 60 | TUBE ASSEMBLY | 76K03048-31 | | 1 |
| 61 | CAP ASSEMBLY | KC150C8 | | 1 |
| 62 | CAP ASSEMBLY | KC150C6 | | 1 3 |
| 63 | UNION, BULKHEAD | KC124C6 | | 4 |
| 64 | NUT, COUPLING | KC142C6 | | 2 |
| 65 | ELBOW, BULKHEAD 90° | KC113C8 | | 1 1 |
| 66 | TEE, SWIVEL ON RUN | KC107C6 | | 2 |
| 67 | TUBE ASSEMBLY | 76K03048-38 | | Ī |
| 68 | TUBE ASSEMBLY | 76K03048-42 | 1 | Ī |
| 69 | ORIFICE, UNION | 75M50562-1 | A34958-9 | 1 |
| 70 | TUBE ASSEMBLY | 76K03048-45 | | 1 |
| 71 | TUBE ASSEMBLY | 76K03048-50 | | 1 |
| 72 | TUBE ASSEMBLY | 76K03048-37 | | 1 |
| 73 74 | TUBE ASSEMBLY | 76K03048-46 | | 1 |
| 75 | ORIFICE, BULKHEAD UNION TUBE ASSEMBLY | 75M50562-1 | A34967-9 | 1 |
| 76 | TUBE ASSEMBLY TUBE ASSEMBLY | 76K03048-36 | | 1 |
| 77 | TUBE ASSEMBLY TUBE ASSEMBLY | 76K03048-76 | | 1 |
| 78 | TUBE ASSEMBLY | 76K03048-101 | | 1 |
| 79 | TUBE ASSEMBLY | 76K03048-47 | | 1 |
| 80 | NIPPLE | 76K03048-104 KC116C16-16 | | 1 |
| 81 | TUBE ASSEMBLY | 76K03048-54 | | 2 1 |
| 82 | ORIFICE, BULKHEAD UNION | 75M50562-1 | A34980-9 | 1 1 |
| 83 | TUBE ASSEMBLY | 76K03048-68 | 1101000-5 | i |
| 84 | TUBE ASSEMBLY | 76K03048-60 | | 1 |
| 85 | ADAPTER | KC112C4 | | 8 |
| 86 | ORIFICE, UNION | 75M50562-1 | A34978-9 | |
| 87 | UNION | KC126C4 | | 1 2 |
| 88 | ORIFICE, BULKHEAD UNION | 75M50562-1 | A34947-9 | 1 |
| 89 | NUT | MC174C16 | | 2 |
| 90 | ELBOW, BULKHEAD 90° | KC113C16 | | 1 |
| 91 | CAP ASSEMBLY | MC177C16 | | 1 |
| 92 93 | CLAMP, CUSHIONED | MS21919H16 | | 2 |
| 94 | SCREW (KC102-63) CAP ASSEMBLY | MS35207-263 | | 9 |
| 95 | ELBOW SWIVEL | KC150C16 KC131C16 | | 1 2 |
| 96 | UNION, BULKHEAD | KC124C16 | | 1 |
| 97 | PACKING | MS28778-6 | | 2 |
| 98 | ADAPTER | KC112C6 | | 2 |
| 99 | HOSE ASSEMBLY | 76K03602-6-0580 | | 1 |
| 100 | CLAMP | MS35842-15 | | 3 |
| 101 | TUBE ASSEMBLY | 76K03048-81 | | 1 |
| 102 | HOSE ASSEMBLY | 76K03602-6-0720 | | 1 |
| 103 | ELBOW, BULKHEAD 900 | KC113C6 | | 1 |
| 104 | TUBE ASSEMBLY | 76K03048-82 | | 1 |
| 105 | ORIFICE, UNION | 76K03578-1 | A34951-9 | 1 |
| 106 | TUBE ASSEMBLY | 76K03048-86 | | 1 |
| 107 | TEE, BULKHEAD | KC114C6 | | 1 |
| 108 109 | TUBE ASSEMBLY | 76K03048-79 | A 240EO O | 1 |
| 110 | VALVE, CHECK TUBE ASSEMBLY | 10426693 | A34950-9 | 1 |
| 111 | SCREW | 76K03048-80 | | 1 2 |
| 112 | CLAMP, CUSHIONED | MS51958-65 MS21919H11 | | 1 |
| 113 | TUBE ASSEMBLY | 76K03048-88 | | 1 1 |
| 114 | TUBE ASSEMBLY | 76K03048-87 | | 1 |
| 115 | ELBOW, 90° | KC118C4 | | 9 |
| - | , , , , , , , , , , , , , , , , , , | | | i |

Figure 7-1. Tubing Installation (Sheet 16 of 17)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|---|---|-------------------------------------|--|
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY SUPPORT GRIP (81992) U-BOLT HOSE ASSEMBLY WASHER NUTS TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY ORIFICE, BULKHEAD UNION TUBE ASSEMBLY ELBOW, BULKHEAD 90° TUBE ASSEMBLY ORIFICE, UNION TUBE ASSEMBLY ORIFICE, UNION CAP ASSEMBLY TUBE ASSEMBLY CLAMP, HOSE ORIFICE, UNION TUBE ASSEMBLY | 76K03048-91 76K03048-90 76K03048-89 024-01-013 MC658A3-05-36 76K03602-4-1200 AN960C10 MS21045C3 76K03048-5 76K03048-6 76K03048-6 76K03048-4 76K03602-4-0960 75M50562-1 76K03048-1 76K03048-21 76K03048-22 76K03048-22 76K03048-22 76K03048-23 76K03048-23 76K03602-4-0860 76K03602-4-0860 76K03602-4-0680 76K03578-12 MC177C4 MS35842-14 76K03048-25 10425928-1 76K03048-25 10425928-1 76K03048-24 MS35842-11 | A34991-9 A34989-9 A34971-9 A34987-9 | 1 1 1 16 8 5 16 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| REF: | 76K03038 REV A, EO 1, 3, 4, 6, 600; 76K3048 | 2 NO REV, EO 1, 2 | | |

Figure 7-1. Tubing Installation (Sheet 17 of 17)

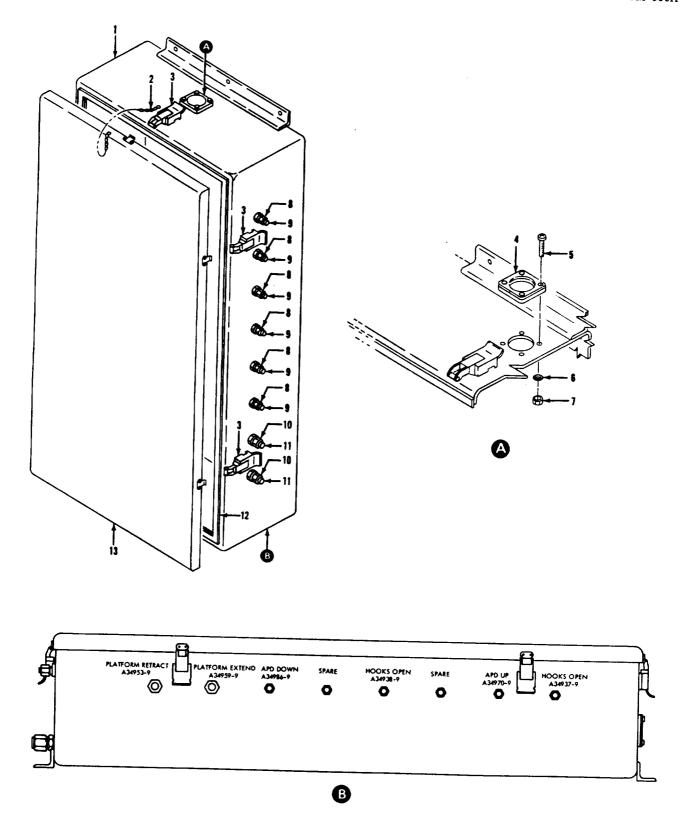


Figure 7-2. Pneumatic Box Assembly (Sheet 1 of 7)

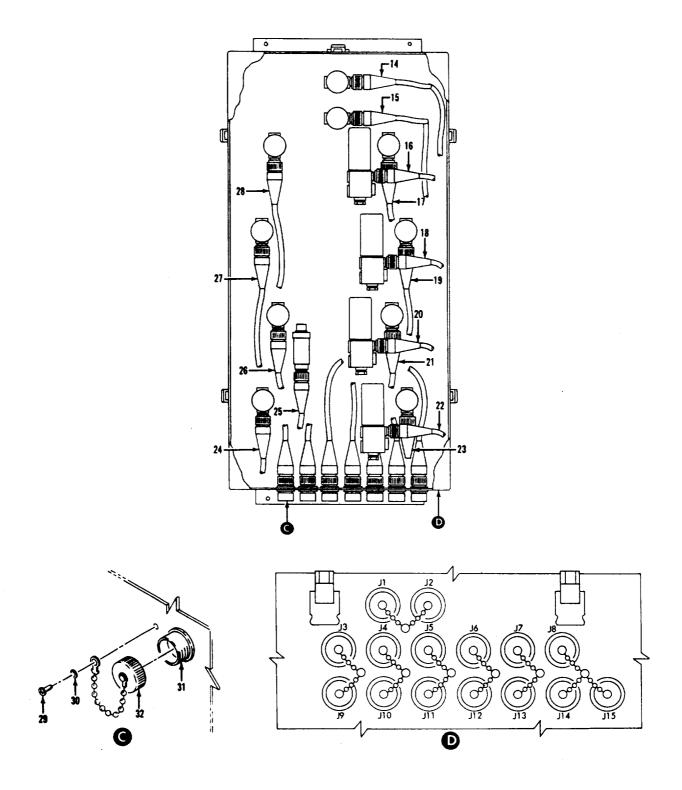
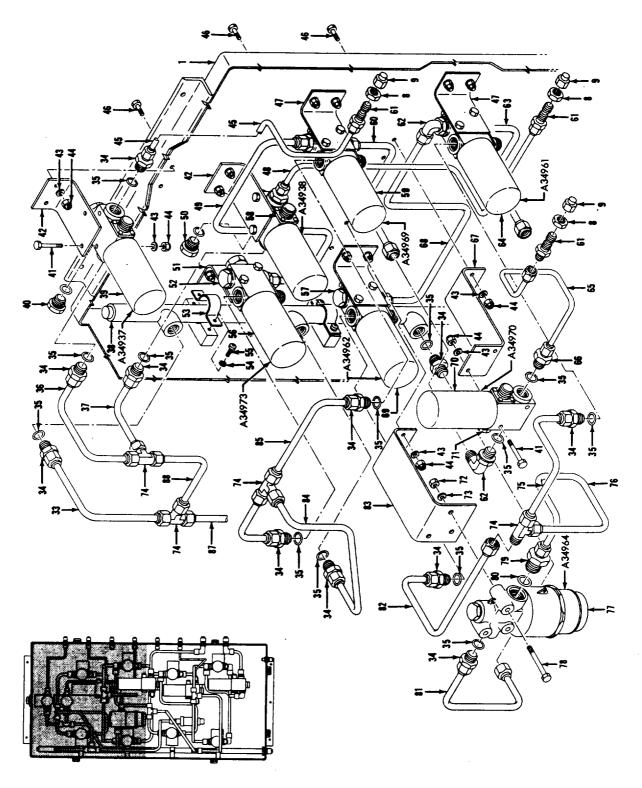


Figure 7-2. Pneumatic Box Assembly (Sheet 2 of 7)



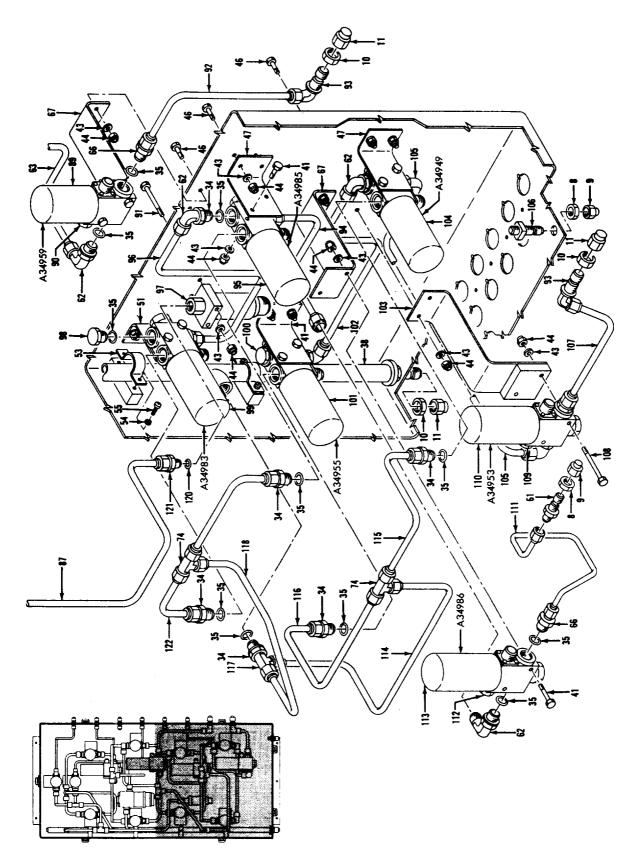


Figure 7-2. Pneumatic Box Assembly (Sheet 4 of 7)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER |
|-----------------|--------------------------------|----------------------------|-------------------------|-----------|
| | | | | |
| | PNEUMATIC BOX ASSEMBLY | 76K03039-1 | | x |
| 1 | PNEUMATIC BOX | 76K03040-1 | | î |
| 2 | SASH CHAIN, NO 30, 13" (39428) | 53607 | | l i |
| 3 | CATCH ASSEMBLY (14608) | 15834U | | 7 |
| | SCREW | MS51957-26 | | 14 |
| 4 | WASHER BLEED DY AME | MS35338-136 | | 14 |
| 5 | BLEED PLATE SCREW | 75M02047 | | 1 |
| 6 | WASHER | MS51957-18 | | 4 |
| 7 | NUT | NAS620C4 MS21045-04 | | 4 |
| 8 | NUT | MC174C4 | | 7 |
| 9 | CAP ASSEMBLY | KC150C4 | | 9 |
| 10 | NUT | MC174C6 | | 3 |
| 11 | CAP ASSEMBLY | KC150C6 | | 3 |
| 12 | GASKET | 76K03039-2 | | A/R |
| 13 | COVER | 76K03339-1 | | 1 |
| 14 | CABLE ASSEMBLY | 76K03047-22 | 57A55A1W5 | 1 |
| 15 16 | CABLE ASSEMBLY | 76K03047-36 | 57A55A1W9 | 1 |
| 16 17 | CABLE ASSEMBLY CABLE ASSEMBLY | 76K03047-40 | 57A55A1W13 | 1 |
| 18 | CABLE ASSEMBLY CABLE ASSEMBLY | 76K03047-21 | 57A55A1W4 | 1 |
| 19 | CABLE ASSEMBLY CABLE ASSEMBLY | 76K03047-38 | 57A55A1W11 | 1 |
| 20 | CABLE ASSEMBLY | 76K03047-19 | 57A55A1W2 | 1 |
| 21 | CABLE ASSEMBLY | 76K03047-39 76K03047-20 | 57A55A1W12 | 1 |
| 22 | CABLE ASSEMBLY | 76K03047-20 | 57A55A1W3 57A55A1W10 | 1 1 |
| 23 | CABLE ASSEMBLY | 76K03047-37 | 57A55A1W10 | 1 |
| 24 | CABLE ASSEMBLY | 76K03047-41 | 57A55A1W14 | l i |
| 25 | CABLE ASSEMBLY | 76K03047-23 | 57A55A1W6 | l i |
| 26 | CABLE ASSEMBLY | 76K03047-24 | 57A55A1W7 | l î |
| 27 | CABLE ASSEMBLY | 76K03047-42 | 57A55A1W15 | l ī |
| 28 | CABLE ASSEMBLY | 76K03047-25 | 57A55A1W8 | 1 |
| 29 | SCREW | NAS51958-16 | | 7 |
| 30 | WASHER | MS35338-135 | | 7 |
| 31 32 | CONNECTOR (71468) | | | 15 |
| 33 | PROTECTION CAP TUBE ASSEMBLY | 75M13307-16 | | 15 |
| 34 | ADAPTER | 76K03046-34 | | 1 |
| 35 | PACKING | KC112C6 MS28778-6 | | 32 |
| 36 | TUBE ASSEMBLY | 76K03046-36 | | 48 |
| 37 | TUBE ASSEMBLY | 76K03046-7 | | 1 |
| 38 | MANIFOLD ASSEMBLY | 76K03750-1 | | î |
| 39 | VALVE, SOLENOID | 10425701-2 | A34937-9 | ī |
| 40 | VALVE, CHECK, VENT | 75M51630-634 | A34939-9 | 1 |
| 41 | BOLT | AN3C14A | | 26 |
| 42 | BRACKET | 76K03041-1 | | 2 |
| 43 44 | WASHER | AN960C10 | | 58 |
| 44 45 | NUT TUBE ASSEMBLY | MS21045C3 | | 58 |
| 46 | BOLT | 76K03046-1 | | 1 |
| 47 | BRACKET | AN3C5A 76K03043-1 | | 28 |
| 48 | TUBE ASSEMBLY | 76K03045-1 | | 6 |
| 49 | TUBE ASSEMBLY | 76K03046-30 | | 1 1 |
| 50 | VALVE, CHECK, VENT | 75M51630-634 | A34944-9 | i |
| 51 | BRACKET | 76K03043-2 | WASAIL A | 2 |
| 52 | VALVE, CHECK, VENT | 75M51630-634 | A34974-9 | l i |
| 53 | CLAMP, MANIFOLD | 76K03751-1 | | 4 |
| 54 | WASHER | MS35338-138 | | 1 8 |

Figure 7-2. Pneumatic Box Assembly (Sheet 5 of 7)

| INDEX NUMBER | DESCRIPTION | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER |
|-----------------|-------------------------|--------------|-------------------------|-----------|
| | 1 2 3 4 | | DESIGNATOR | AGGEMENT |
| . - | | | | |
| 55 | SCREW | MS51957-64 | | 8 |
| 56 | VALVE, SOLENOID | 10425701-2 | A34973-9 | 8 |
| 57 | VALVE, CHECK, VENT | 75M51630-634 | A34963-9 | 1 |
| 58 | VALVE, SOLENOID | 10425701-2 | A34938-9 | 1 |
| 59 | VALVE, SOLENOID | 10425701-2 | A34969-9 | 1 |
| 60 | TUBE ASSEMBLY | 76K03046-8 | | 1 |
| 61 | UNION, BULKHEAD | KC124C4 | | 6 |
| 62 | ELBOW ASSEMBLY | KC108C6 | | 9 |
| 63 | TUBE ASSEMBLY | 76K03046-11 | | 1 |
| 64 | VALVE, SOLENOID | 10425701-2 | A34961-9 | 1 |
| 65 | TUBE ASSEMBLY | 76K03046-2 | | 1 |
| 66 | EXPANDER, ADAPTER | KC135C4-6 | | 4 |
| 67 | BRACKET | 76K03042-1 | | 3 |
| 68 | TUBE ASSEMBLY | 76K03046-25 | | 1 |
| 69 | VALVE, SOLENOID | 10425701-2 | A34962-9 | i |
| 70 | VALVE, SOLENOID | 10425701-2 | A34970-9 | i |
| 71 | VALVE, CHECK, VENT | 75M51630-634 | A34972-9 | l i |
| 72 | NUT | MS21045C-4 | | 3 |
| 73 | WASHER | AN960C416L | | 3 |
| 74 | TEE, FLARED | KC123C6 | | 6 |
| 75 | TUBE ASSEMBLY | 76K03046-9 | | 1 1 |
| 76 | TUBE ASSEMBLY | 76K03046-10 | | i |
| 77 | REGULATOR, PRESSURE | 75M13255 | A34964-9 | i |
| 78 | BOLT | AN4C17A | M3 7 307 - 3 | 3 |
| 79 | EXPANDER, ADAPTER | KC135C6-8 | | 1 1 |
| 80 | PACKING | MS28778-8 | | 1 1 |
| 81 | TUBE ASSEMBLY | | | 1 1 |
| 82 | | 76K03046-26 | | - |
| 83 | TUBE ASSEMBLY | 76K03046-29 | | 1 |
| | BRACKET | 76K03045-1 | | 1 |
| 84 | TUBE ASSEMBLY | 76K03046-33 | | 1 |
| 85 | TUBE ASSEMBLY | 76K03046-28 | | 1 |
| 86 | TUBE ASSEMBLY | 76K03046-35 | | 1 |
| 87 | TUBE ASSEMBLY | 76K03046-23 | | 1 |
| 88 | TUBE ASSEMBLY | 76K03046-32 | | 1 |
| 89 | VALVE, SOLENOID | 10425701-2 | A34959-9 | 1 |
| 90 | VALVE, CHECK, VENT | 75M51630-634 | A34960-9 | 1 |
| 91 | BOLT | AN3C20A | | 2 |
| 92 | TUBE ASSEMBLY | 76K03046-37 | | 1 |
| 93 | ELBOW, BULKHEAD | KC113C6 | | 2 |
| 94 | TUBE, ASSEMBLY | 76K03046-14 | | 1 |
| 95 | VALVE, SOLENOID | 10425701-2 | A34985-1 | 1 |
| 96 | TUBE ASSEMBLY | 76K03046-21 | | 1 |
| 97 | SWITCH, PRESSURE | 75M06286-2 | A34975-9 | 1 |
| 98 | VALVE, CHECK, VENT | 75M51630-634 | A34981-9 | 1 |
| 99 | VALVE, SOLENOID | 10425701-2 | A34983-9 | 1 |
| 100 | VALVE, CHECK, VENT | 75M51630-634 | A34956-9 | 1 |
| 101 | VALVE, SOLENOID | 10425701-2 | A34955-9 | 1 |
| 102 | TUBE ASSEMBLY | 76K03046-18 | | 1 |
| 103 | BRACKET | 76K03337-1 | | 1 |
| 104 | VALVE, SOLENOID | 10425701-2 | A34949-9 | 1 |
| 105 | TUBE ASSEMBLY | 76K03046-16 | | 1 |
| 106 | ORIFICE, BULKHEAD UNION | 75M50562-1 | | ī |
| 107 | TUBE ASSEMBLY | 76K03046-38 | | 1 |
| 108 | BOLT | AN3C21A | | 2 |
| 109 | VALVE, CHECK, VENT | 75M51630-634 | A34954-9 | ī |
| 110 | VALVE, SOLENOID | 10425701-2 | A34953-9 | i |
| 111 | TUBE ASSEMBLY | 76K03046-5 | *** *********** | i |
| | | 1072000-0 | | 1 |

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Figure 7-2. Pneumatic Box Assembly (Sheet 6 of 7)

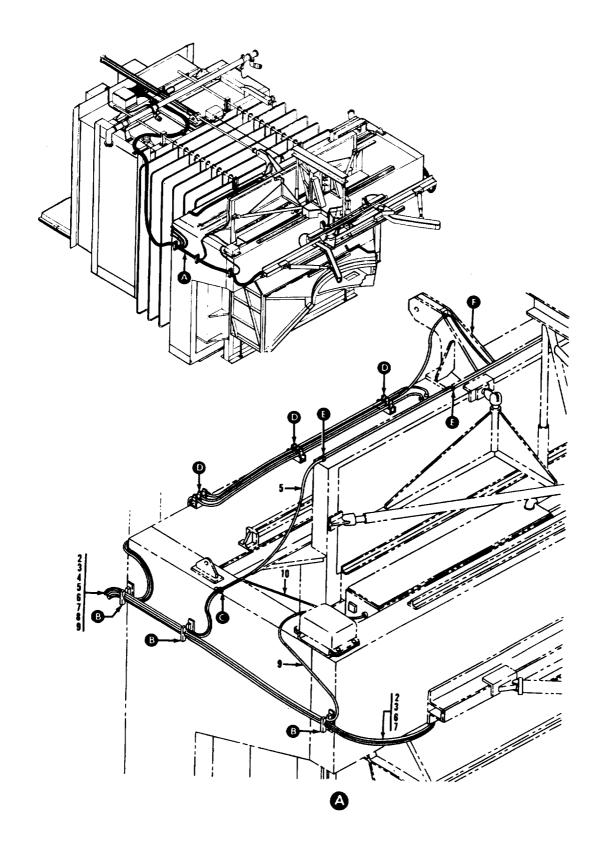


Figure 7-3. Electrical Equipment Installation (Sheet 2 of 19)

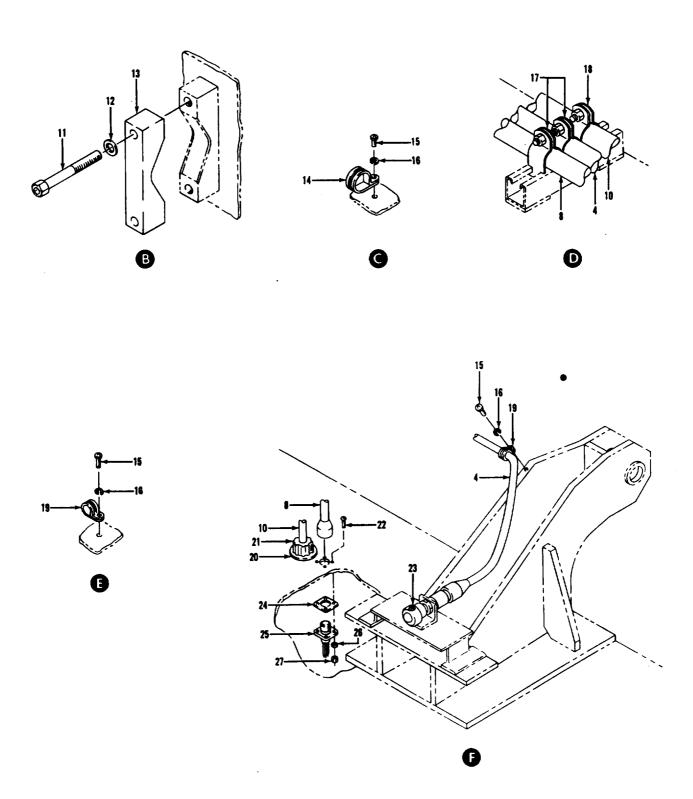


Figure 7-3. Electrical Equipment Installation (Sheet 3 of 19)

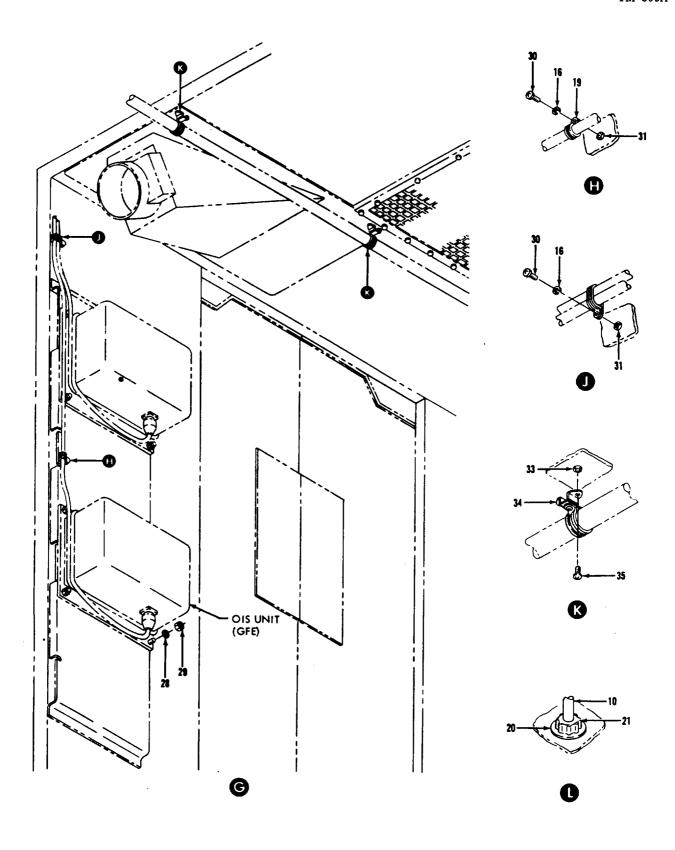


Figure 7-3. Electrical Equipment Installation (Sheet 4 of 19)

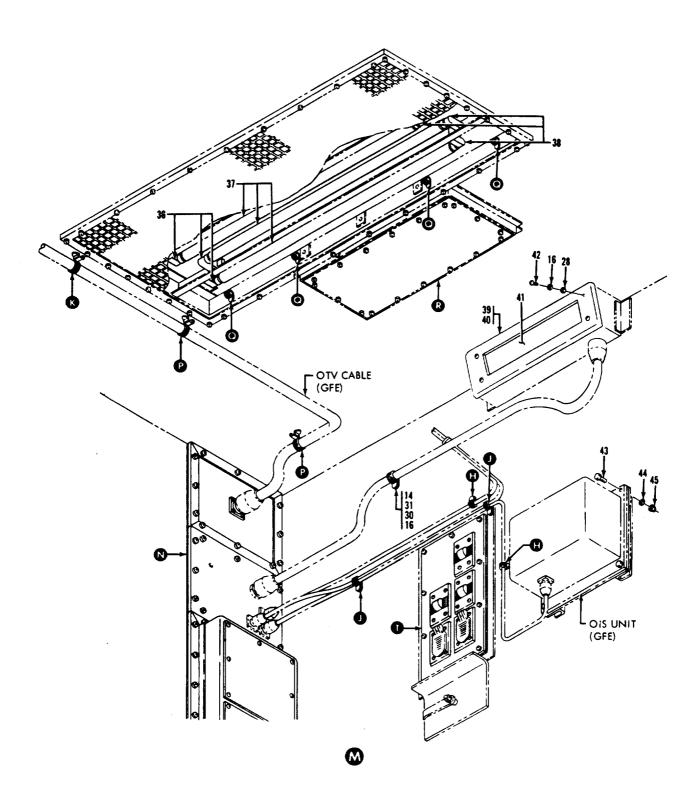


Figure 7-3. Electrical Equipment Installation (Sheet 5 of 19)

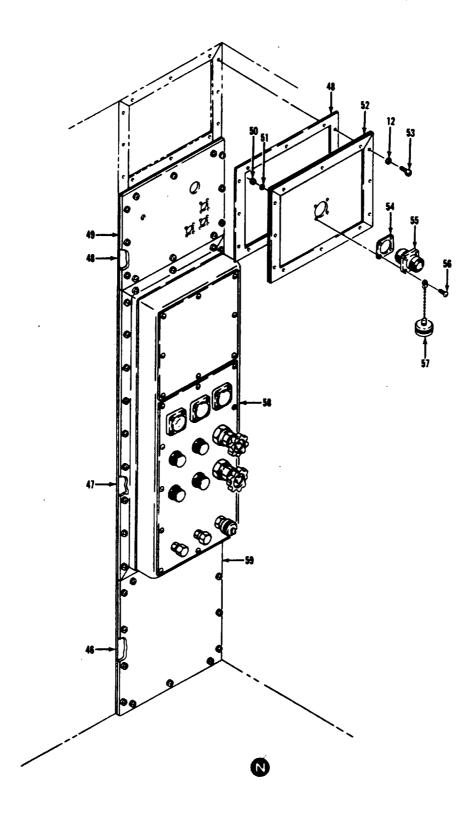


Figure 7-3. Electrical Equipment Installation (Sheet 6 of 19)

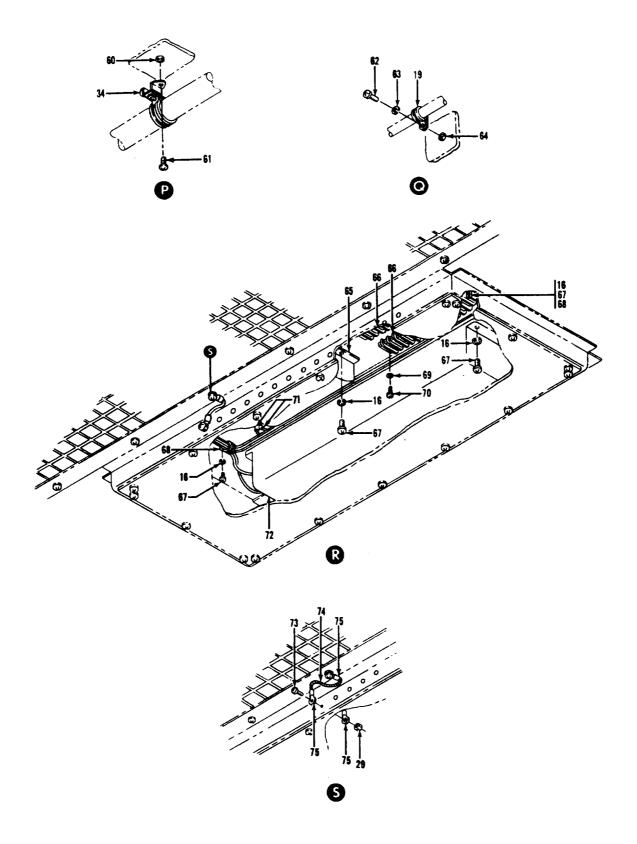


Figure 7-3. Electrical Equipment Installation (Sheet 7 of 19)

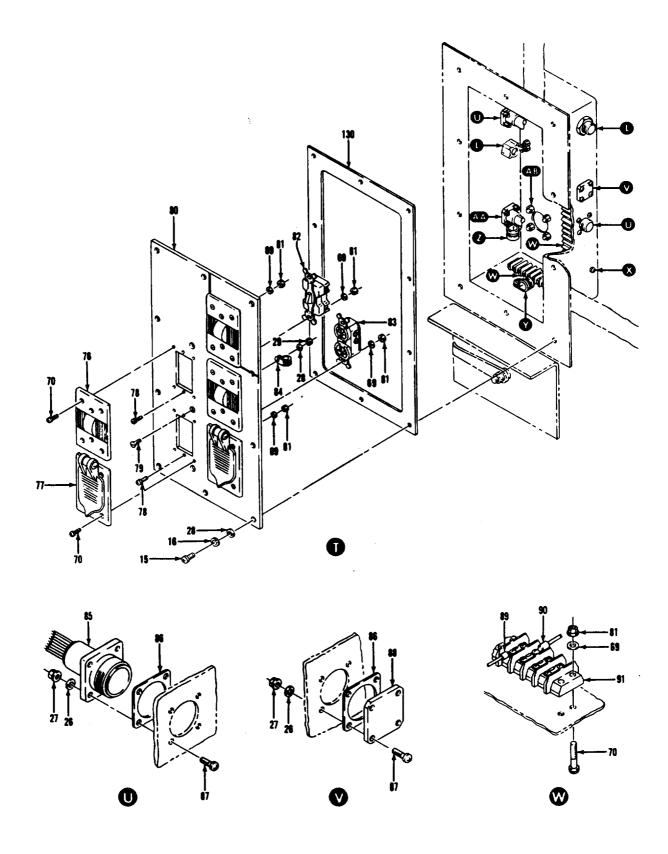


Figure 7-3. Electrical Equipment Installation (Sheet 8 of 19)

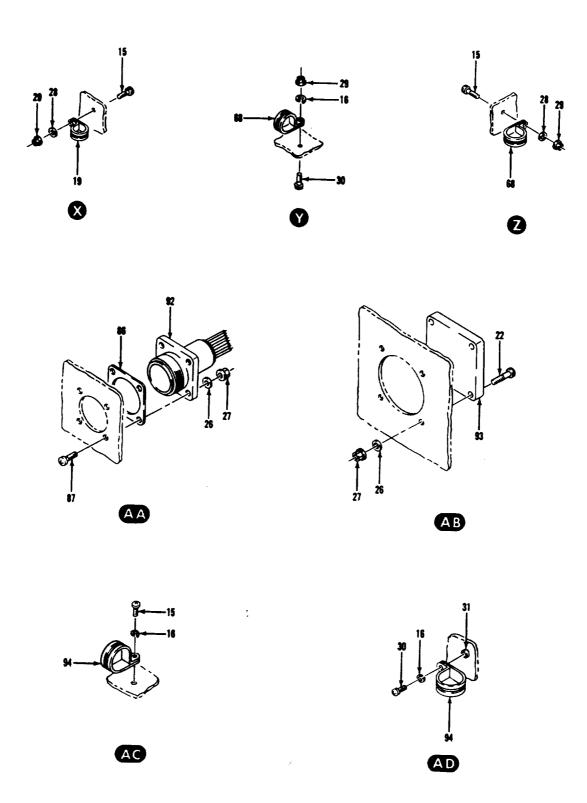


Figure 7-3. Electrical Equipment Installation (Sheet 9 of 19)

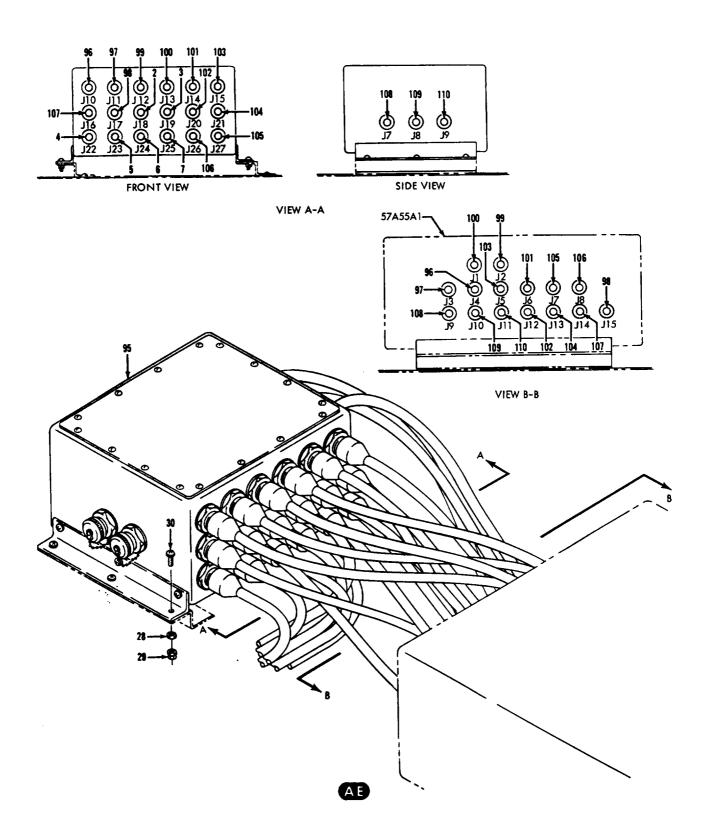


Figure 7-3. Electrical Equipment Installation (Sheet 10 of 19)

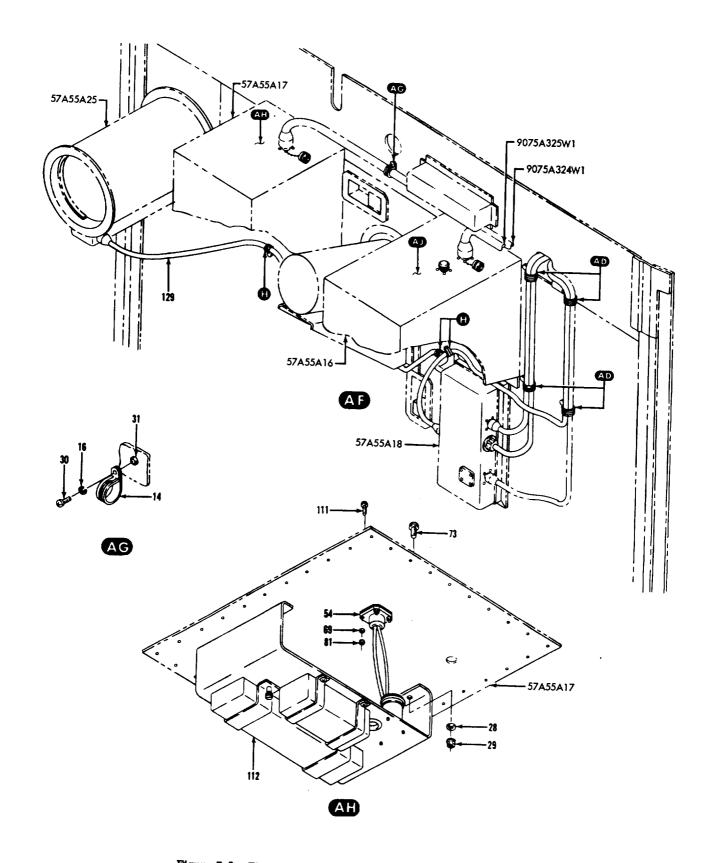


Figure 7-3. Electrical Equipment Installation (Sheet 11 of 19)

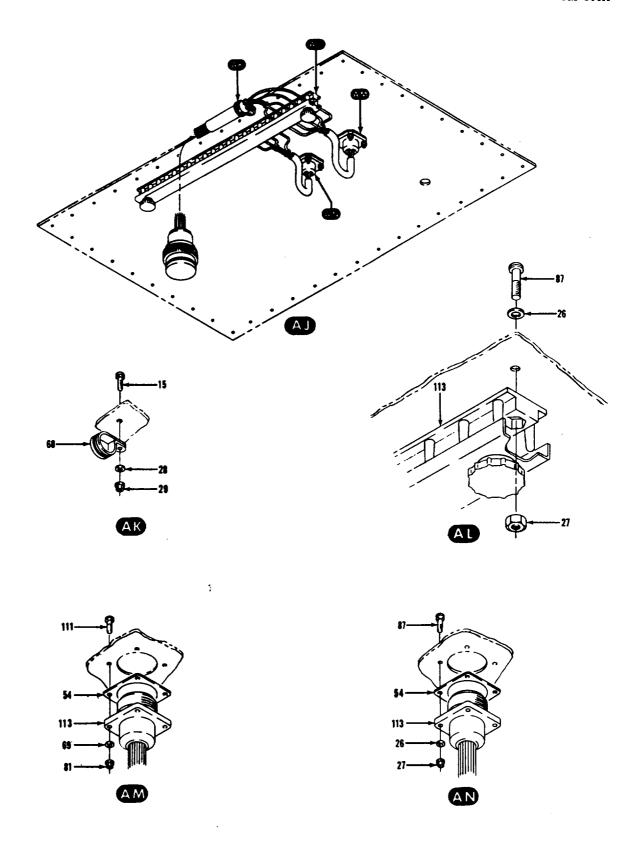


Figure 7-3. Electrical Equipment Installation (Sheet 12 of 19)

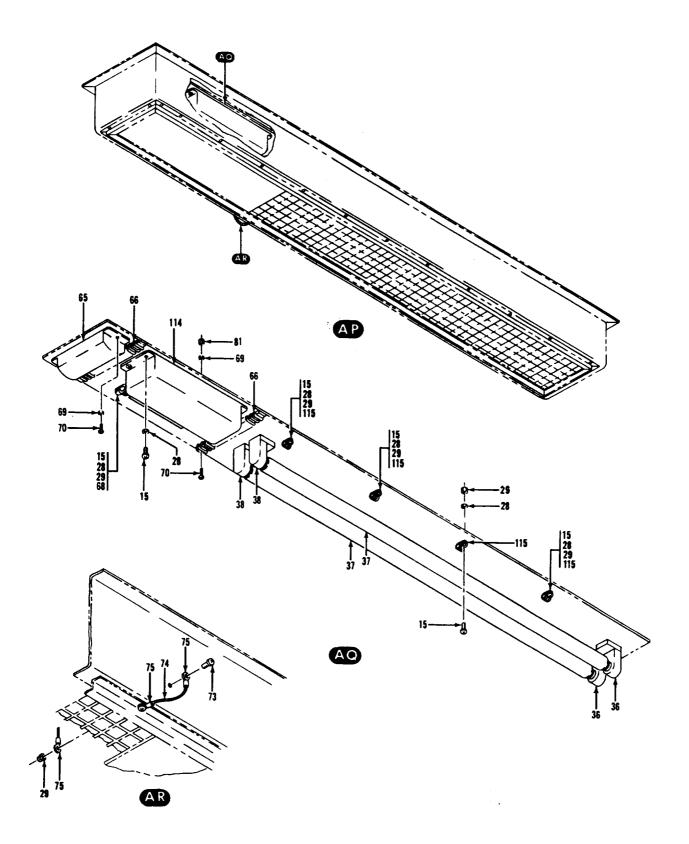


Figure 7-3. Electrical Equipment Installation (Sheet 13 of 19)

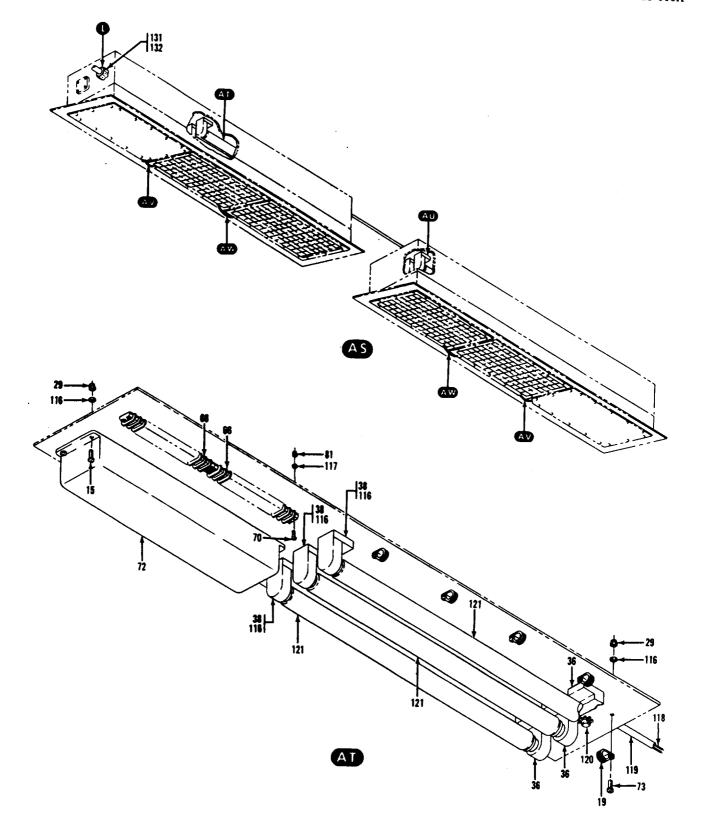


Figure 7-3. Electrical Equipment Installation (Sheet 14 of 19)

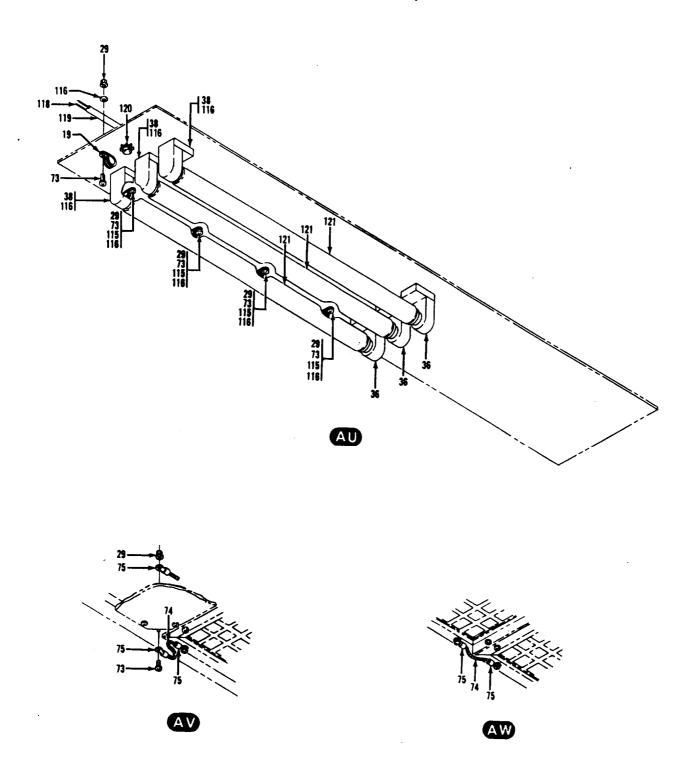


Figure 7-3. Electrical Equipment Installation (Sheet 15 of 19)

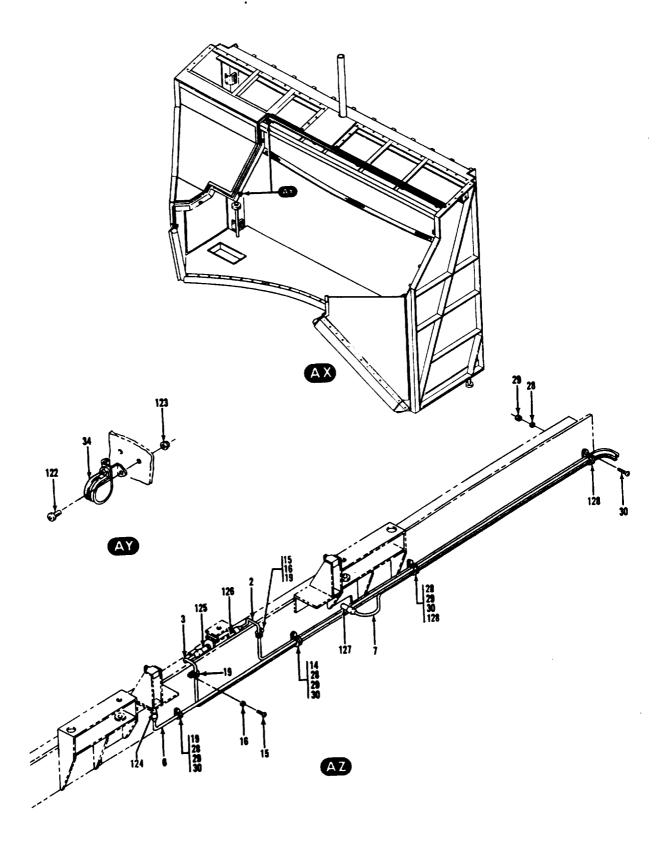


Figure 7-3. Electrical Equipment Installation (Sheet 16 of 19)

| NUMBER | 1 2 3 4 DESCRIPTION | PART NUMBER | REFERENCE DESIGNATOR | UNITS PE |
|----------|--------------------------------------|----------------------------|-------------------------|----------|
| | ELECTRICAL EQUIPMENT INSTALLATION | 76400000 | | |
| 1 | 5W11 C11 | 76K03050-2 | | x |
| 2 | CABLE ASSEMBLY | 75M13058-1 | 57A55A10 | 1 |
| 3 | CABLE ASSEMBLY | 76K03047-9 | 57A55W9 | 1 |
| 4 5 | CABLE ASSEMBLY | 76K03047-10 | 57A55W10 | Ī |
| 6 | CABLE ASSEMBLY | 76K03047-13 76K03047-14 | 57A55W13 | i |
| 7 | CABLE ASSEMBLY | 76K03047-14 | 57A55W14 | 1 |
| 8 | CABLE ASSEMBLY | 76K03047-16 | 57A55W19 | 1 |
| g | CABLE ASSEMBLY | 76K03047-17 | 57A55W20 | 1 |
| 10 | CABLE ASSEMBLY | 32C06 | 57A55A18W1 | 1 |
| 11 | CABLE (BULK, 4C #120SDB) CAPSCREW | MSFC-332/7 | | 1 |
| 12 | WASHER | MS16997-66 | | 2 |
| 13 | CABLE CLAMP | AN960C416 | ļ | 24 |
| 14 | CLAMP | 76K03723-1 | | 88 |
| 15 | SCREW | MS21919DG16 | | 6 |
| 16 | WASHER | MS51958-64 | | 9 |
| 17 | CLAMP (96195) | MS35338-43 | | 40 |
| 18 | CLAMP (96195) | P2026 | | 65 |
| 19 | CLAMP | P2028 | | 8 4 |
| 20 | WASHER, RUBBER | MS21919DG8 | | 29. |
| 21 | CONNECTOR (59730) | NAS1515B12 | | 5 |
| 22 | SCREW | 2535 | | 5 |
| 23 | SWITCH | MS51957-18 | | 8 |
| 24 | GASKET (77820) | 76K03843-1 | 57A55A9 | i |
| 25 | HARNESS ASSEMBLY | 10-40450-10 | | i |
| 26 | WASHER | 76K03054-66 AN960C4 | | 1 |
| 27 | NUT | MS21042-04 | | 30 |
| 28 | WASHER | AN960C10 | | 30 |
| 29 30 | NUT | MS21042-3 | | 52 |
| 31 | SCREW | MS51958-66 | | 59 |
| 32 | RIVNUT (03481) | A10-130 | ļ | 40 |
| 33 | CLAMP (83930) | 444A16-1-8 | | 28 |
| 34 | NUT, BLIND RIVET | NAS1329C3-130 | | 5 |
| 35 | CLAMP, FLIP LOC (84971) SCREW | TA5002BH1802 | | 4 |
| 36 | LAMP HOLDER (24446) | MS35207-263 | | 6 |
| 37 | LAMP (24446) | ALF505X91 | | 4 14 |
| 38 | LAMP HOLDER (24446) | F42T12/HC | | 8 |
| 39 | FRAME, COUNTDOWN CLOCK | ALF505X92 | | 14 |
| 40 | GASKET | 76K03831-1 | | 1 |
| 41 | LENS, COUNTDOWN CLOCK | 76K03832-1 | | î |
| 42 | SCREW | 76K03830-1 | 1 | ī |
| 43 | BOLT | MS35207-268 | | 4 |
| 44 | WASHER | AN6C13A AN960-616L | } | 4 |
| 45 46 | NUT | MS21044N6 | | 4 |
| 46 | GASKET | 76K03702-2 | | 4 |
| 48 | GASKET | 76K03702-2 | | 1 |
| 49 | GASKET COVER DI ATTI | 76K03702-3 | | 1 |
| 50 | COVER PLATE NUT | 76K03062-1 | 1 | 1 |
| 51 | WASHER | MS35650-364 | ĺ | 1 |
| 52 | | MS25338-155 | | 4 |
| 53 | MOUNTING PLATE ASSEMBLY SCREW | 76K03499-3 | į | 4 |
| 54 | GASKET (77820) | MS35266-83 | | 1 |
| 55 | CONNECTOR (77820) | 10-40450-28 | | 62 |
| | 11020) | 10-107428-21PS | | 3 |
| | | | | 1 |
| | | | | 1 |

Figure 7-3. Electrical Equipment Installation (Sheet 17 of 19)

| INDEX | DESCRIPTION | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER |
|---------|---------------------------------------|---------------|-------------------------|-----------|
| NUMBER | 1 2 3 4 | | | 1 |
| TOMEDEL | 1 2 3 4 | | | 4 |
| | SCREW | MS35207-231 | | 1 |
| 56 | CAP (77820) | 10-101048-28 | 57A55A11 | 1 |
| 57 | GOX MODULE | 76K12341 | JAMONIA | 1 |
| 58 | COVER PLATE | 76K03063-1 | } | 4 |
| 59 | NUT, BLIND RIVET | NAS1329C3-130 | | 4 |
| 60 | NUI, BLIND RIVE | MS35207-262 | | 4 |
| 61 | SCREW | MS51957-46 | | 4 |
| 62 | SCREW | MS35338-42 | | 4 |
| 63 | WASHER RIVNUT (03481) | A8-75 | | 2 |
| 64 | R F FILTER (24446) | 6G3725 | | 6 |
| 65 | TERMINAL BLOCK | 75M14964-15 | } | 8 |
| 66 | SCREW | MS51958-60 | | 6 |
| 67 | CLAMP | MS21919DG10 | | 68 |
| 68 | WASHER | AN960C6 | | 58 |
| 69 | SCREW | MS51957-32 | | 2 |
| 70 | | MS25181-2 | | 2 |
| 71 | SPLICE BALLAST (24446) | 6G3753 | | 28 |
| 72 | SCREW | MS51958-62 | | A/R |
| 73 | WIRE, WHITE | B-16 | | 16 |
| 74 | WIRE, WHILE | MS25036-8 | | 3 |
| 75 | TERMINAL LUG PRESSWITCH PLATE (74545) | 1750 | | 2 |
| 76 | LIFT COVER PLATE (74545) | 52-21 | ļ | 10 |
| 77 | | MS51957-28 | | 3 |
| 78 | SCREW | KC147-73 | | 1 1 |
| 79 | SCREW | 76K03065-1 | Ì | 66 |
| 80 | COVER PLATE | MS21042-06 | | 3 |
| 81 | NUT | 1281-I | | 2 |
| 82 | SWITCH (74545) | P2092 | ļ | 3 |
| 83 | RECEPTACLE (74545) | MS21919DG-6 | | 2 |
| 84 | CLAMP | 76K03058-18 | | 1 4 |
| 85 | HARNESS ASSEMBLY | 10-40450-16 | | 22 |
| 86 | GASKET (77820) | MS51957-16 | | 1 |
| 87 | SCREW | 76K03687-1 | | 31 |
| 88 | BLANK | MS25036-11 | | 200 |
| 89 | TERMINAL LUG | MS25036-6 | | 200 |
| 90 | TERMINAL LUG | 75M14964-12 | j | |
| 91 | TERMINAL BLOCK | 76K03059-10 | | |
| 92 | HARNESS ASSEMBLY | 76K03455-1 | | |
| 93 | PURGE PLATE | MS21919DG20 | | |
| 94 | CLAMP | 76K03060-1 | 57A55A2 | } |
| 95 | DISTRIBUTOR BOX | 76K03047-1 | 57A55W1 | |
| 96 | CABLE ASSEMBLY | 76K03047-2 | 57A55W2 | 1 |
| 97 | CABLE ASSEMBLY | 76K03047-35 | 57A55W31 | |
| 98 | CABLE ASSEMBLY | 76K03047-3 | 57A55W3 | |
| 99 | CABLE ASSEMBLY | 76K03047-4 | 57A55W4 | 1 |
| 100 | CABLE ASSEMBLY | 76K03047-5 | 57A55W5 | Į. |
| 101 | CABLE ASSEMBLY | 76K03047-32 | 57A55W28 | |
| 102 | CABLE ASSEMBLY | 76K03047-6 | 57A55W6 | l l |
| 103 | CABLE ASSEMBLY | 76K03047-33 | 57A55W29 | 1 |
| 104 | CABLE ASSEMBLY | 76K03047-26 | 57A55W21 | ļ |
| 105 | CABLE ASSEMBLY | 76K03047-15 | 57A55W18 | 1 |
| 100 | CABLE ASSEMBLY | 76K03047-34 | 57A55W30 | , |
| 10 | 7 CABLE ASSEMBLY | 76K03047-29 | 57A55W25 | 1 |
| 10 | CABLE ASSEMBLY | 76K03047-31 | 57A55W26 | 1 |
| 10 | CABLE ASSEMBLY | 76K03047-30 | 57A55W20 | |
| ii | CABLE ASSEMBLY | MS35265-30 | | |
| ii | | 1,1,000 | | 1 |
| 1 | | 1 | | 1 |
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Figure 7-3. Electrical Equipment Installation (Sheet 18 of 19)

| INDEX NUMBER | 1 2 3 4 DESCRIPTION | PART NUMBER | REFERENCE | UNITS PE |
|-----------------|-------------------------------------|--------------|-------------|----------|
| 112 | CHASSIS AGODA | | DESIGNATOR | ASSEMBL |
| 113 | CHASSIS ASSEMBLY | 76K03081-1 | | |
| 114 | HARNESS ASSEMBLY | 70750001-1 | f | 1 |
| | BALLAST (24446) | 76K03055-1 | ł | |
| 115 | CLAMP | 7G3834 | ł | 1 |
| 116 | WASHER, PLASTIC | MS21919DG4 | f | 1 |
| 117 | WASHED DEASTIC | NAS1515B3 | j | 8 |
| 118 | WASHER, PLASTIC | NACIE15 DOG | 1 | 26 |
| | WIRE | NAS1515B06 | 1 | 8 |
| 119 | CONDUIT, FLEXIBLE (09641) | B-12 | 1 | |
| 120 | CONNECTOR (59730) | L. T. 12 | 1 | A/R |
| 121 | LAMP (24446) | 5353 | | A/R |
| 122 | SCREW | F24T12/H0 | | 2 |
| 123 | | MORFOCE DE | | 6 |
| i | NUT | MS35207-264 | | |
| 124 | SWITCH | MS21044C3 | | 4 |
| 125 | SWITCH | 75M13058-1 | 57AEE A 10 | 4 |
| 126 | SWITCH | 75M13058-1 | 57A55A13 | 1 |
| 127 | SWITCH | 753412050 4 | 57A55A6 | 1 |
| | SWITCH | 75M13058-1 | 57A55A5 | ī |
| 128 | CLAMP | 75M13058~1 | 57A55A12 | |
| 129 | CABLE ASSEMBLY | MS21919DG18 | | 1 |
| 130 | GASKET | 76K03047-45 | 57455410774 | 3 |
| 131 | SHIFT D DDIG TOTAL | 76K03066-1 | 57A55A18W4 | 1 |
| 132 | SHIELD RING, INNER | 75M13676-71 | 1 | 1 |
| | SHIELD RING, OUTER | 751413070-71 | ł | 3 |
| 133 | CABLE ASSEMBLY | 75M13676-70 | | 3 |
| | | 32C07 | | 1 |
| | K03050 REV B, EO 1 THRU 6, 601, 602 | | | |
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Figure 7-3. Electrical Equipment Installation (Sheet 19 of 19)

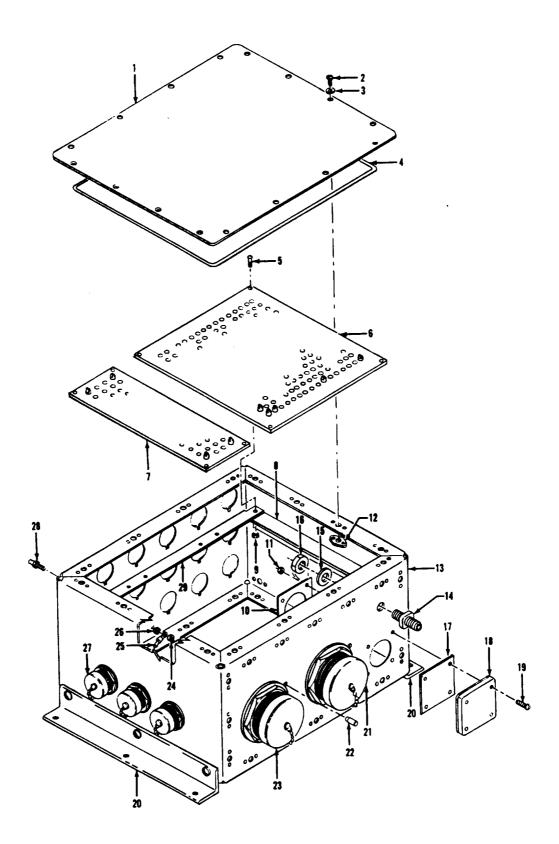


Figure 7-4. Distributor Box Assembly (Sheet 1 of 2)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER |
|---|---|--|-------------------------|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 REF: 70 | DISTRIBUTOR BOX ASSEMBLY COVER SCREW LOCKWASHER GASKET SCREW TERMINAL BOARD ASSEMBLY BOARD ASSEMBLY ANGLE NUT, STOP (72962) PLATE NUT, SELF LOCKING ANCHOR NUT CHASSIS ASSEMBLY ORIFICE, BULKHEAD UNION GASKET (70367) NUT, FLARED TUBE SCREW PLATE, BLEED SCREW MOUNTING BRACKET HARNESS ASSEMBLY DOWEL PIN HARNESS ASSEMBLY NUT TERMINAL LUG WASHER, SEALING HARNESS ASSEMBLY BALL AND STUD (59730) ANGLE | 76K03060-1 75M09812-1 MS35234-63 MS35233-73 75M09808-2 MS51957-30 76K03061-1 75M09813-1 76K03060-3 79NM-62 76K03060-6 NAS1021C04 NAS1474A3 76K03060-2 75M50562-1 NS-NES MC175C4 76K03060-7 75M02047 MS51957-18 76K03060-5 75M07777-2 MS16555-625 75M077778-2 NAS671B6 MS25936-53 NAS1598C08R 75M07779-2 #23 76K03060-4 | | X 2 38 38 2 8 1 1 2 8 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 2 1 1 2 2 3 1 2 2 8 1 2 2 2 8 1 2 2 2 8 1 2 2 2 8 1 2 2 2 8 1 2 2 2 2 |

Figure 7-4. Distributor Box Assembly (Sheet 2 of 2)

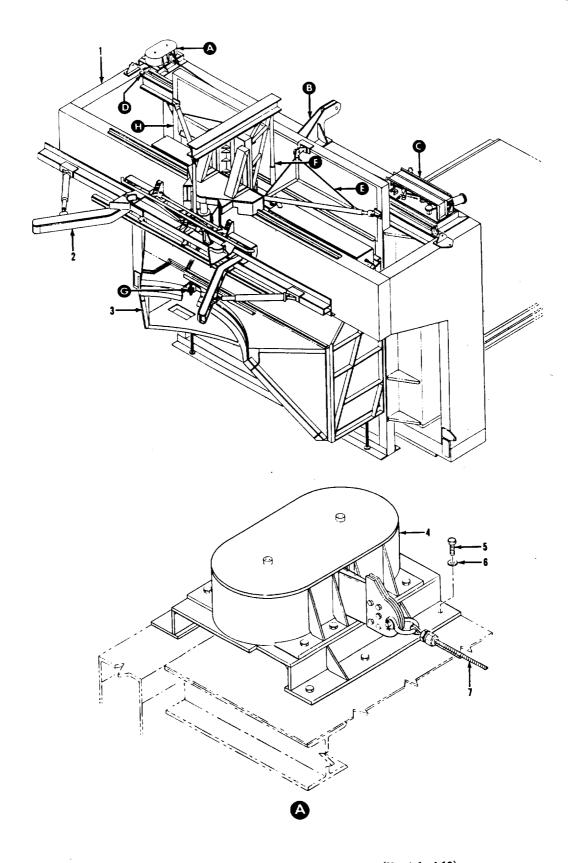
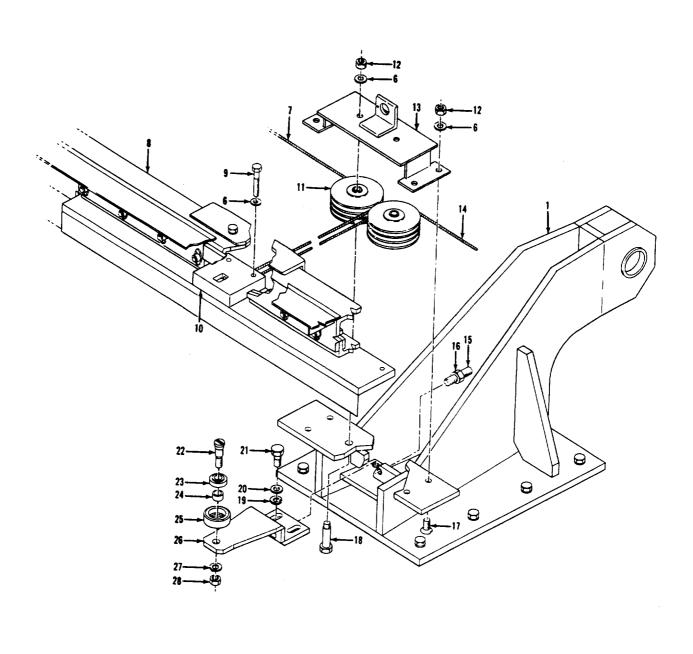


Figure 7-5. Extension Platform Assembly (Sheet 1 of 13)



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Figure 7-5. Extension Platform Assembly (Sheet 2 of 13)

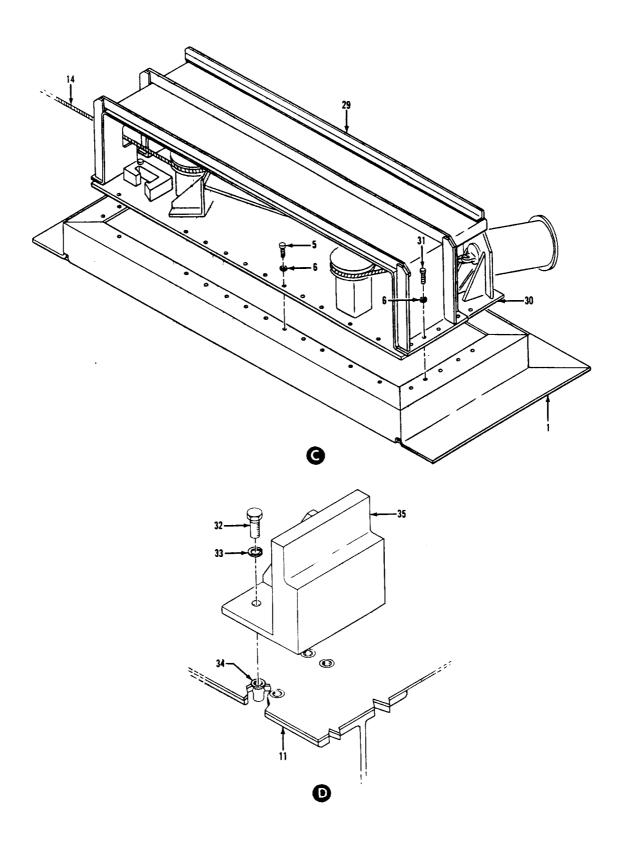


Figure 7-5. Extension Platform Assembly (Sheet 3 of 13)

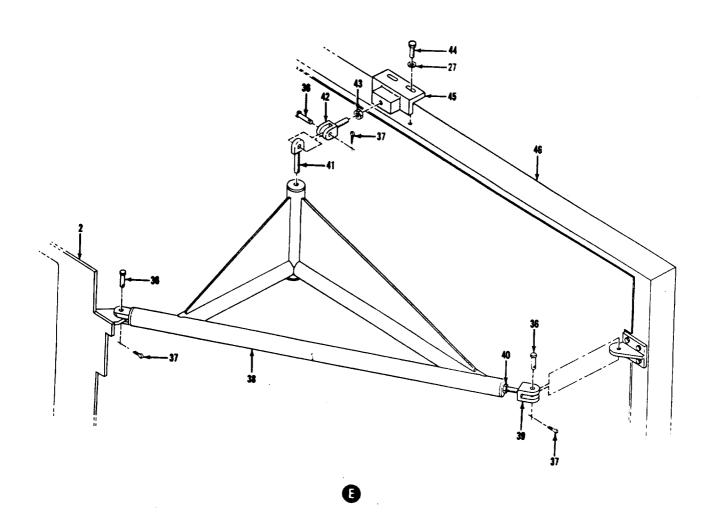


Figure 7-5. Extension Platform Assembly (Sheet 4 of 13)

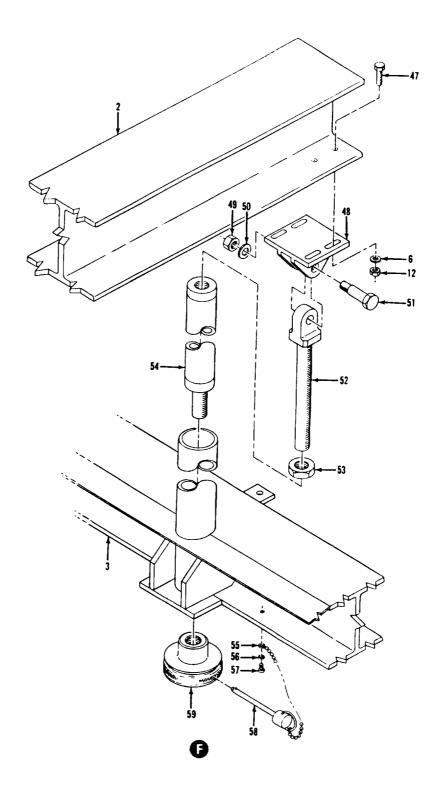


Figure 7-5. Extension Platform Assembly (Sheet 5 of 13)

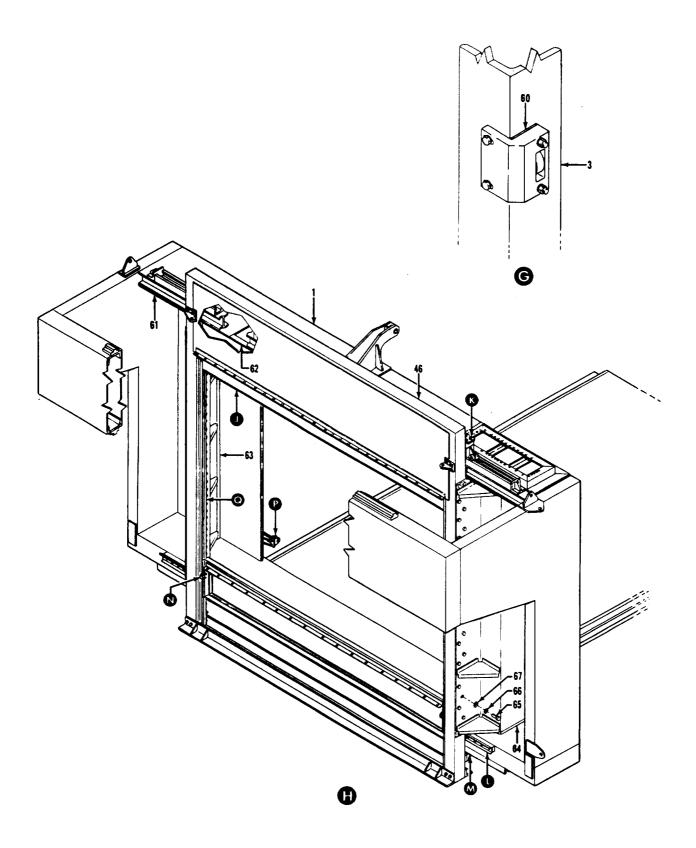


Figure 7-5. Extension Platform Assembly (Sheet 6 of 13)

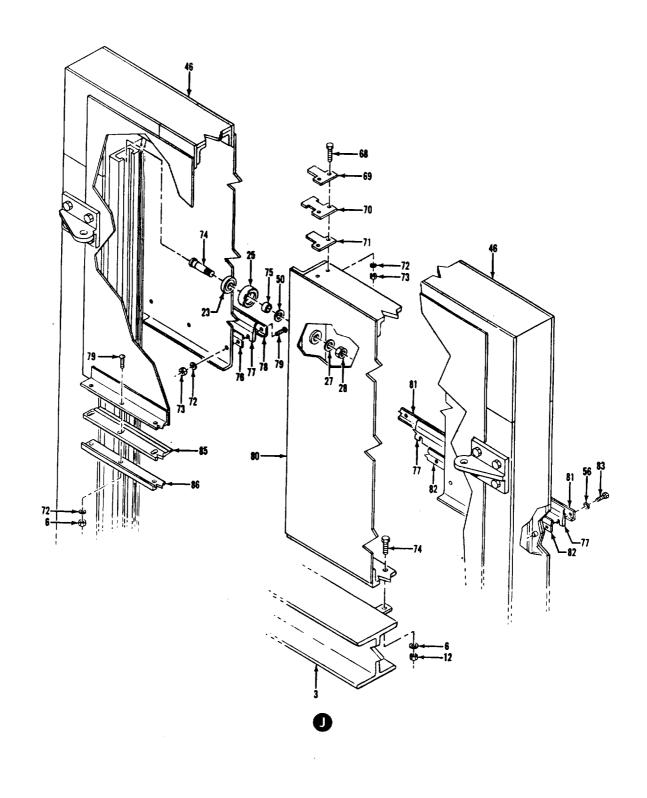


Figure 7-5. Extension Platform Assembly (Sheet 7 of 13)

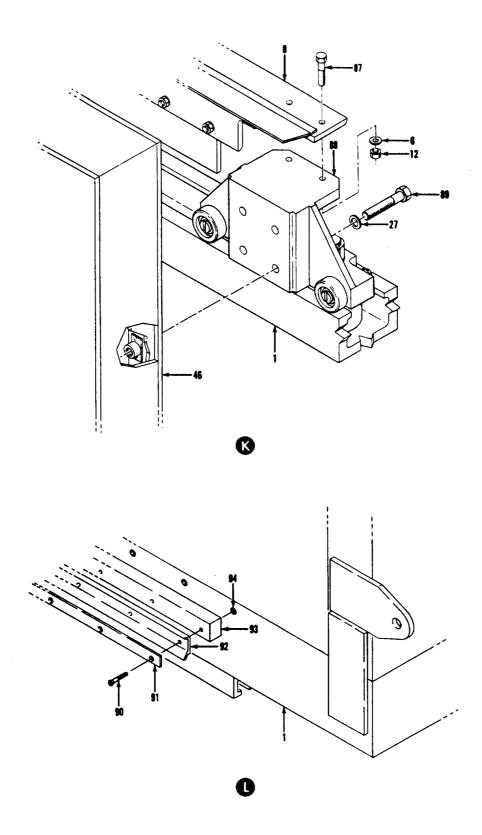


Figure 7-5. Extension Platform Assembly (Sheet 8 of 13)

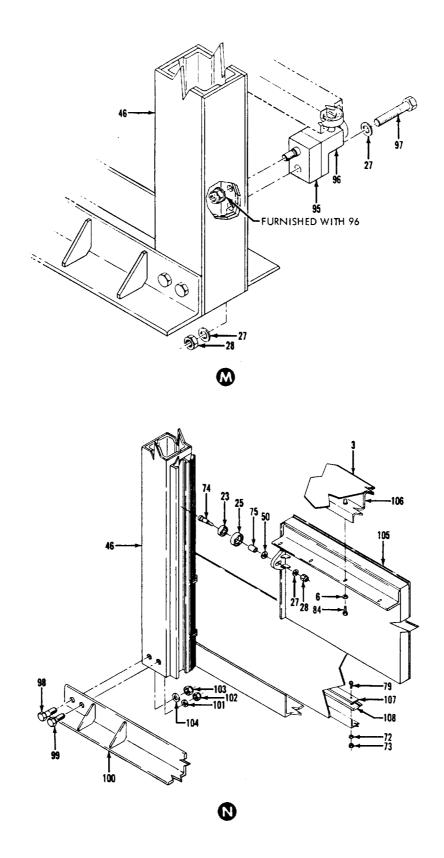


Figure 7-5. Extension Platform Assembly (Sheet 9 of 13)

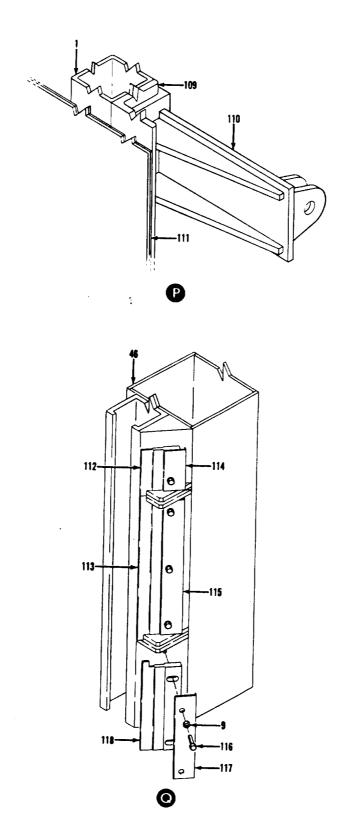


Figure 7-5. Extension Platform Assembly (Sheet 10 of 13)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|-----------------|---|---------------------------|-------------------------|-----------------------|
| | | 76K03384-1 | | x |
| 1 | EXTENSION PLATFORM ASSEMBLY EXTENSION PLATFORM STRUCTURAL | 76K03386-1 | | 1 |
| 1 | ASSEMBLY | , | | |
| 2 | LES COUPLER ASSEMBLY | 76K03242-1 | | 1 |
| 3 | HOOD ADAPTER ASSEMBLY | 76K03290-1 | | 1 1 |
| 4 | SPRING ASSEMBLY | 76K03855-1 AN4-7A | | 25 |
| 5 | BOLT | AN960-416 | | 82 |
| 6 7 | WASHER CABLE ASSEMBLY | 76K03848-1 | | 1 |
| 8 | CENTERING DEVICE SUPPORT ASSEMBLY | 76K03560-1 | | 1 |
| 9 | CAPSCREW | MS90727-13 | | 2 |
| 10 | CABLE RETAINER | 76K03397-1 | | 1 4 |
| 11 | PULLEY | MS20220A2 MS21045-4 | | 27 |
| 12 | NUT | 76K03400-1 | | i |
| 13 14 | PULLEY COVER CABLE ASSEMBLY | 76K03401-1 | | 1 |
| 15 | SET SCREW | MS51964-101 | | 1 |
| 16 | NUT | MS35691-21 | | 1 |
| 17 | SCREW | KC148-83 | | 4 2 |
| 18 | BOLT | NAS1297-4-28 | | . 2 |
| 19 | WASHER | MS35338-140 AN960-516 | | 2 |
| 20 21 | WASHER CAPSCREW | MS90727-32 | | 2 |
| 21 22 | HORIZONTAL SHAFT | 76K03343-3 | | 1 |
| 23 | BEARING (43334) | 993L01 | | 9 |
| 24 | SLEEVE | 76K03345-1 | | 1 9 |
| 25 | ROLLER | 76K03328-2 | | 1 |
| 26 | ROLLER SUPPORT | 76K03567-1 AN960-616 | | 19 |
| 27 | WASHER | MS21045-6 | | 9 |
| 28 29 | NUT COVER ASSEMBLY | 76K03545-1 | | 1 |
| 30 | ACTUATOR ASSEMBLY | 76K03381-1 | | 1 9 |
| 31 | BOLT | AN4-10A | | 8 |
| 32 | BOLT | AN4-5A MS35338-44 | | 8 |
| 33 | WASHER NUT, BLIND RIVET | NAS1330SK4K331 | | 8 |
| 34 35 | BUMPER | 76K03399-1 | | 2 |
| 36 | STRAIGHT PIN | MS20392-6C51 | | 6 |
| 37 | COTTER PIN | MS24665-285 | | 6 |
| 38 | TUBE WELDMENT (SHOWN) | 76K03240-1 | | î |
| | TUBE WELDMENT (OPPOSITE-NOT | 76K03240-2 | | |
| 90 | SHOWN) | 76K03287-1 | | 2 |
| 39 40 | CLEVIS NUT | MS35691-33 | | 2 |
| 41 | EYE | 76K03352-1 | | 2 |
| 42 | CLEVIS | 76K03236-1 | | 2 2 |
| 43 | NUT | MS35691-17 MS30727-64 | | 4 |
| 44 | CAP SCREW | 76K03285-1 | | 2 |
| 45 | POSITIONING BRACKET FRAME ASSEMBLY | 76K03353-1 | | 1 |
| 46 | CAPSCREW | MS9072-8 | | 4 |
| 48 | CLEVIS BRACKET | 76K03405-1 | | 1 |
| 49 | NUT | MS21044N7 | | 9 |
| 50 | WASHER | AN960-716 NAS1297-4-28 | | 1 |
| 51 | BOLT CLEVIS BOD | 76K03264-1 | | 1 |
| 52 53 | CLEVIS ROD NUT | MS35691-61 | | 1 |
| 55 | 1101 | 1 | 1 | į |

Figure 7-5. Extension Platform Assembly (Sheet 11 of 13)

| NUMBER | 1 2 3 4 DESCRIPTION | PART NUMBER | REFERENCE DESIGNATOR | UNITS PE ASSEMBL |
|----------|---|--------------------------|-------------------------|---------------------|
| 54 | HOOD LINKAGE | | | - |
| 55 | CHAIN | 76K03288-1 | | 1 |
| 56 | WASHER | NAS1201B10A12B | | li |
| 57 | SCREW | MS35338-43 | | 3 |
| 58 | BALL LOCK PIN | MS51958-62 | | 1 |
| 59 | HOOD RELEASE KNOB | NAS1354DS7S310 | | Î |
| 60 | SHIM | 76K03349-1 | | i î |
| 61 | CEILING PANEL | 76K03403-1 | | A/R |
| 20 | CEILING PANEL (OPPOSITE-NOT SHOWN) | 76K03575-2 | | 1 |
| 62 | CEIDING SIKIP | | | l î |
| 63 | SEAL PANEL ASSEMBLY | 76K03576-1 | | l î |
| 64 | SEAL PANEL ASSEMBLY | 76K03553-1 | | ī |
| 65 | CAPSCREW | 76K03553-1 | | l î |
| 66 | WASHER . | MS35308-303 | | 48 |
| 67 | WASHER | MS35335-61 | | 48 |
| 68 | BOLT | AN970-4 | | 48 |
| 69 | SEAL PLATE | AN3-10A | | 4 |
| 70 | SEAL | 76K03350-1 | | 2 |
| 71 | SEAL PLATE | 76K03351-1 | | 2 |
| 72 | WASHER | 76K03350-2 | | 2 |
| 73 | NUT | AN960-10L | | 143 |
| 74 | SHAFT | MS21045-3 | | 83 |
| 75 | SLEEVE | 76K03343-2 | | 9 |
| 76 | SEAL GUIDE | 76K03345-2 | | 9 |
| 77 | TOP FRAME SEAL | 76K03675-2 | | ĭ |
| 78 | RETAINER | 76K03346-1 | 1 | ī |
| 79 | SCREW | 76K03604-1 | İ | ī |
| 80 | TOP SEAL PANEL | MS35207-265 | | 79 |
| 81 | RETAINER | 76K03348-1 | | 1 |
| 82 | SEAL GUIDE | 76K03604-2 76K03675-1 | | 1 |
| 83 84 | SCREW | MS35207-266 | | 1 |
| 85 | CAPSCREW | MS90726-7 | 1 | 2 |
| | SEAL FRAME | 76K03342-1 | 1 | 32 |
| 86 | SEAL RETAINER | 76K03341-4 | į | 1 |
| 87 | CAPSCREW | MS90727-9 | | 1 |
| 88 89 | UPPER TROLLEY ASSEMBLY | 76K03376-1 | | 4 |
| 90 | CAPSCREW | MS90727-68 | | 2 |
| 91 | SCREW | MS24693-5282 | | 8 |
| 92 | RETAINER | 76K03519-1 | 1 | 33 |
| 93 | SEAL STRIP | 76K03441-1 | | 3 |
| 94 | SPACER | 76K03517-1 | ĺ | 3 |
| 95 | NUT, BLIND RIVET | NAS1330S3K216 | ŀ | 3 |
| | FRAME SHIM (SHOWN) | 76K03515-1 | | 31 |
| 96 | FRAME SHIM (OPPOSITE-NOT SHOWN) | 76K03515-2 | | 1 |
| . | LOWER ROLLER ASSEMBLY (SHOUR) | 76K03370-1 | ĺ | 1 |
| 1 | LOWER ROLLER ASSEMBLY (ODDOGTOR | 76K03370-2 | | 1 |
| 97 | NOT SHOWN) BOLT | | | 1 |
| 98 | BOLT | AN9-14A | | |
| 99 | CAPSCREW | AN9-14A | | 2 |
| 100 | ANGLE SUPPORT AGGREGATE | MS90726-113 | ĺ | 2 |
| 101 | ANGLE SUPPORT ASSEMBLY WASHER | 76K03366-1 | 1 | 3 |
| 102 | NUT | AN960-816 | | 1 |
| 103 | NUT | MS21045-8 | | 2 |
| 104 | WASHER | MS21044N9 | | 2 |
| 105 | SEAL DANEL ACCESSES | AN960-916L | 1 | 2 |
| 106 | SEAL PANEL ASSEMBLY NUT, BLIND RIVET | 76K03406-1 | | 2 |
| | MOT, BUILD KIAEL | NAS1330S4K211 | 1 | 1 |
| 1 | 1 | | | 19 |

Figure 7-5. Extension Platform Assembly (Sheet 12 of 13)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|---|--|-------------------------|--|
| 107 108 109 110 111 112 113 114 115 116 117 | SEAL RETAINER FRAME SEAL WALL PANEL BRACKET CLEVIS BRACKET WALL PANEL SIDE TRACK SEAL SIDE TRACK SEAL SEAL RETAINER SEAL RETAINER SCREW SEAL RETAINER SIDE SEAL | 76K03341-5 76K03342-2 76K03573-1 76K03572-1 76K03574-1 76K03367-1 76K03368-1 76K03341-1 76K03341-2 NAS1096-3-12 76K03341-3 76K03369-1 | | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | 6K03384 REV A | 76K03369-1 | | 2 |
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| | | 4 | | |
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Figure 7-5. Extension Platform Assembly (Sheet 13 of 13)

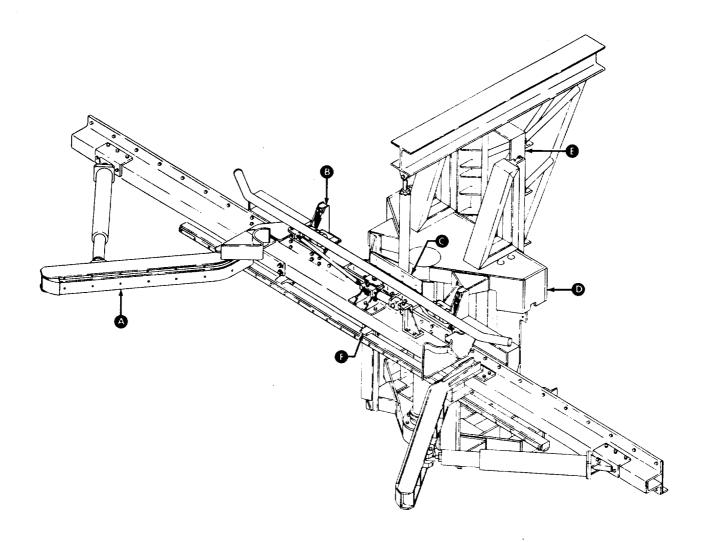


Figure 7-6. LES Coupler Assembly (Sheet 1 of 9)

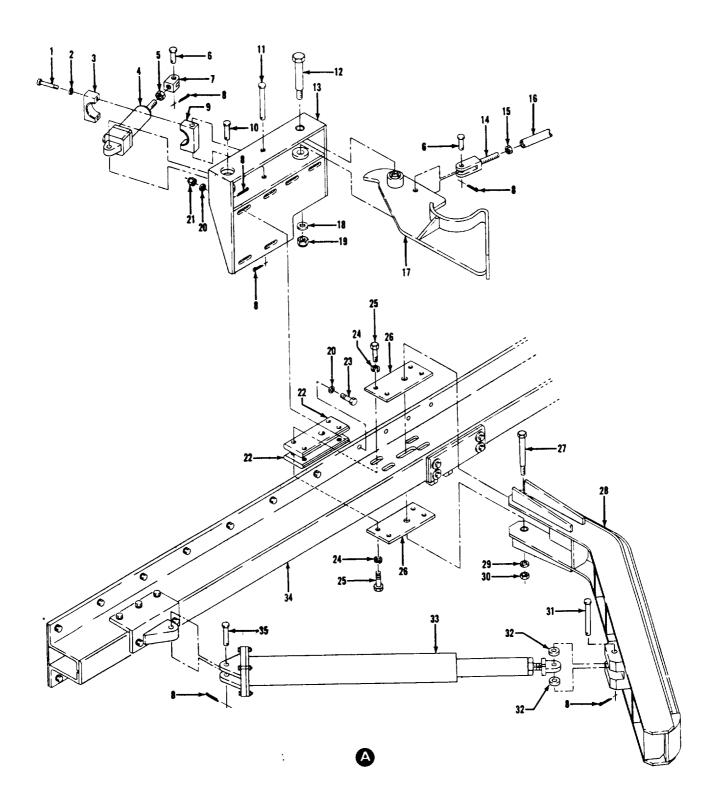


Figure 7-6. LES Coupler Assembly (Sheet 2 of 9)

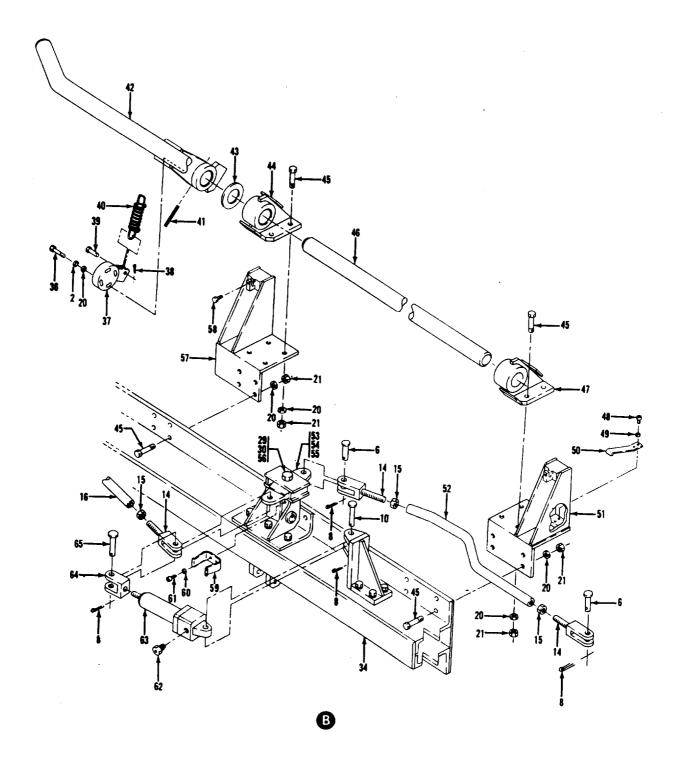


Figure 7-6. LES Coupler Assembly (Sheet 3 of 9)

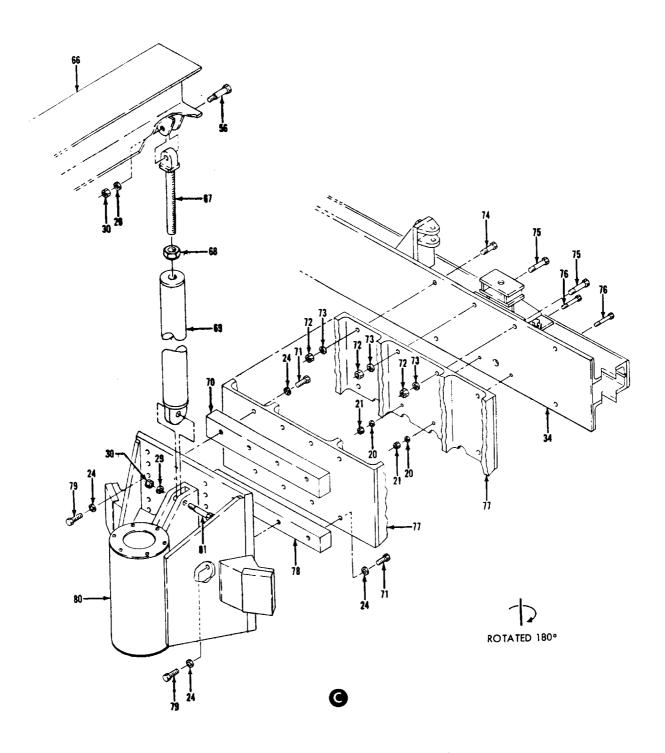


Figure 7-6. LES Coupler Assembly (Sheet 4 of 9)

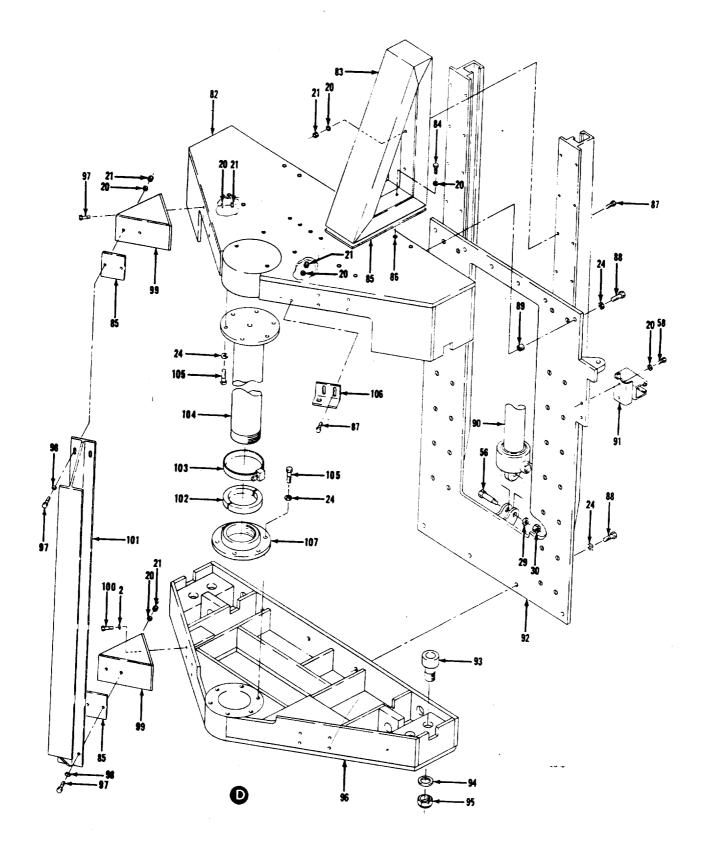


Figure 7-6. LES Coupler Assembly (Sheet 5 of 9)

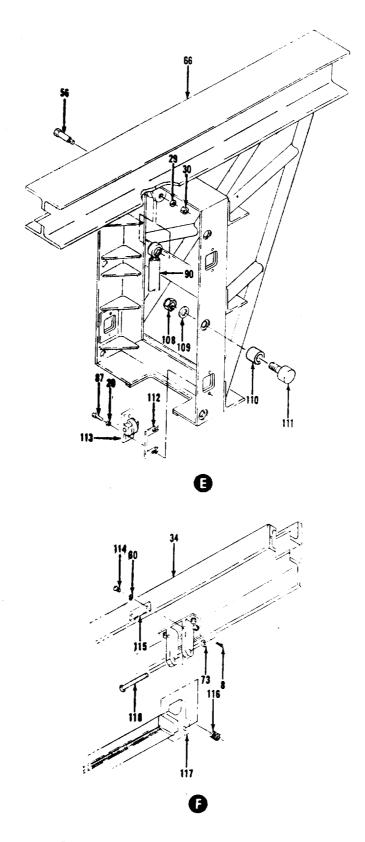


Figure 7-6. LES Coupler Assembly (Sheet 6 of 9)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|-----------------|-----------------------------------|--------------------------|-------------------------|---|
| | 1 2 3 4 | | | - I I I I I I I I I I I I I I I I I I I |
| | LES COUPLER ASSEMBLY | 76K03242-1 | | x |
| 1 | SCREW | MS35207-286 | | 4 |
| 2 | WASHER, LOCK | MS35338-44 | | 20 |
| 3 | BRACKET, CAP | 76K03196-1 | | 2 |
| 4 | CYLINDER, PNEUMATIC (SHOWN) | 76K03230-1 | A34935-9 | ī |
| • | CYLINDER, PNEUMATIC (OPPOSITE) | 101100200 1 | A34934-9 | î |
| 5 | NUT, JAM | MS35691-29 | 2007001-0 | 3 |
| 6 | PIN | MS20392-5C33 | l . | 5 |
| 7 | CLEVIN, EXTEND CYLINDER | 76K03201-1 | 1 | 2 |
| 8 | COTTER PIN | MS24665-283 | | 18 |
| | BRACKET SWIVEL | 76K03197-1 | | 2 |
| 9 | 1 | | | |
| 10 | PIN | MS20392-5C41 | | 3 |
| 11 | PIN | MS20392-5C115 | | 2 |
| 12 | BOLT, SHOULDER | NAS1297-8-58 | | 2 |
| 13 | BRACKET ASSEMBLY, HOOK (SHOWN) | 76K03195-1 | | 1 |
| | BRACKET ASSEMBLY, HOOK (OPPOSITE) | 76K03195-2 | | 1 |
| 14 | CLEVIS ROD, LINKAGE | 76K03191-1 | | 4 |
| 15 | NUT, JAM | MS35691-45 | | 4 |
| 16 | LINKAGE, LEFT | 76K03193-1 | | 1 |
| 17 | HOOK ASSEMBLY (SHOWN) | 76K03198-1 | | 1 |
| | HOOK ASSEMBLY (OPPOSITE) | 76K03198-2 | | 1 |
| 18 | WASHER, FLAT | AN960-816 | | 2 |
| 19 | NUT, LOCK | MS21044N8 | | 2 |
| 20 | WASHER, FLAT | AN960-416 | | 102 |
| 21 | NUT, LOCK | MS21044N4 | | 64 |
| 22 | PLATE, INNER | 76K03200-1 | | 4 |
| 23 | CAPSCREW | MS90727-11 | | 12 |
| 24 | WASHER, LOCK | MS35338-46 | | 54 |
| 25 | CAPSCREW | MS90727-62 | | 16 |
| 26 | PLATE, OUTER | 76K03199-1 | | 4 |
| 27 | BOLT, SHOULDER | NAS1297-7-72 | | 2 |
| 28 | GUIDE ARM ASSEMBLY (SHOWN) | 76K03202-1 | | 1 |
| | GUIDE ARM ASSEMBLY (OPPOSITE) | 76K03202-2 | | 1 |
| 29 | WASHER, FLAT | AN960-716 | | 7 |
| 30 | NUT, LOCK | MS21044N7 | 1 | 7 |
| 31 | PIN | MS20392-7C109 | | 2 |
| 32 | THRUST BEARING (71041) | TB-814 | | 4 |
| 33 | STABILIZER ARM ASSEMBLY | 76K03278-1 | | 2 |
| 34 | BUMPER ASSEMBLY | 76K03251-1 | | 1 |
| 35 | PIN | MS20392-7C63 | | 2 |
| 36 | CAPSCREW | MS16997-63 | | 8 |
| 37 | CAM SWITCH | 76K03273-1 | | ž |
| 38 | COTTER PIN | MS24665-134 | | 2 |
| 39 | PIN | MS20392-3C25 | | 2 |
| 40 | DRAW BAR SPRING ASSEMBLY | 76K03269-1 | 1 | 2 |
| 41 | PIN, SPRING | MS9048-178 | | 1 |
| | LEVER ASSEMBLY | 76K03265-1 | i | i |
| 42 43 | | 76K03265-1 76K03685-1 | | 2 |
| | WASHER BRACKET ASSEMBLY | 76K03085-1 76K03738-1 | | 1 1 |
| 44 | 1 | | | 16 |
| 45 | CAPSCREW | MS90727-9 | | 10 |
| 46 | TUBE, LEVER | 76K03218-1 | | - |
| 47 | BRACKET ASSEMBLY | 76K03738-2 | 1 | 1 2 |
| 48 | CAPSCREW | MS16998-27 | | |
| 49 | WASHER, FLAT | AN960-10L | | 2 |
| 50 | SPRING LEAF | 76K03219-1 | | 1 |
| 51 | BRACKET | 76K03268-1 | | 1 |
| 52 | LINKAGE, RIGHT | 76K03194-1 | | 1 |
| 53 | PILOT LINKAGE ASSEMBLY | 76K03189-1 | | 1 |
| 54 | BEARING, THRUST (71041) | TB-816 | | 1 |
| 34 | BEARING, IRRUSI (11041) | 18-010 | | 1 |

Figure 7-6. LES Coupler Assembly (Sheet 7 of 9)

| INDEX NUMBER | 1 2 3 4 DESCRIPTION | PART NUMBER | REFERENCE DESIGNATOR | UNITS PEI |
|-----------------|-----------------------------|-------------------------------|-------------------------|--------------|
| 55 | BEARING, FLANGED (71041) | FD 010 4 | | |
| 56 | BOLT, SHOULDER | FB-812-4 | | 1 |
| 57 | BRACKET | NAS1297-7-21 76K03274-1 | | 4 |
| 58 | CAPSCREW | · · · · · · · · · · · · · · · | | 1 |
| 59 | SPRING, SWITCH | MS90727-4 76K03192-1 | | 2 |
| 60 | WASHER, LOCK | MS35338-43 | } | 1 |
| 61 | SCREW | MS51957-59 | | 8 |
| 62 | PLUG, MODIFIED | 76K03570-1 | | 2 |
| 63 | CYLINDER, PNEUMATIC | 76K03230-1 | | 1 |
| 64 | CLEVIS, RETURN CYLINDER | 76K03190-1 | | 1 |
| 65 | PIN | MS20392-5C49 | | 1 |
| 66 | LIFT BEAM ASSEMBLY | 76K03239-1 | | 1 |
| 67 | CLEVIS · | 76K03264-1 | | 1 1 |
| 68 | NUT, JAM | MS35691-61 | | 1 1 |
| 69 | LINKAGE ASSEMBLY, APD | 76K03243-1 | | 1 |
| *70 | SHIM PLATE | 76K03231-8 | | 1 |
| 71 | BOLT | MS90727-59 | | 8 |
| 72 | NUT, LOCK | MS21044N6 | | 14 |
| 73 | WASHER, FLAT | AN960-616 | | 17 |
| 74 | BOLT | AN6-12A | | 4 |
| 75 | BOLT | AN6-14A | | 2 |
| 76 | CAPSCREW | MS90727-12 | | 2 |
| 77 | ADJUSTABLE PIVOT | 76K03247-1 | | 1 |
| *78 | SHIM PLATE | 76K03231-7 | i | î |
| 79 | BOLT | MS90727-61 | | 1 |
| 80 | PIVOT ASSEMBLY | 76K03248-1 | | î |
| 81 | BOLT, SHOULDER | NAS1297-7-34 | | i |
| 82 | UPPER GLIDE | 76K03244-1 | | î |
| 83 84 | GUSSET ASSEMBLY | 76K03223-1 | | 2 |
| 85 | CAPSCREW | MS90727-6 | | 8 |
| 86 | SHIM STOCK | 76K03242-2 | | A/R |
| 87 | INSERT (98004) | KNH428 | | 8 |
| 88 | CAPSCREW CAPSCREW | MS90727-8 | | 26 |
| 89 | INSERT | MS16997-99 | i | 10 |
| 90 | CYLINDER, PNEUMATIC | MS21208-C6-10 | | 6 |
| 91 | BRACKET, PNEUMATIC | 76K03825 | A34988-19 | 1 |
| 92 | TRACK ASSEMBLY | 76K03713-1 | | 1 |
| 93 | CAM FOLLOWER (92563) | 76K03237-1 | | 1 |
| 94 | WASHER, FLAT | CFH-1-3/4-S | | 12 |
| 95 | NUT, LOCK | AN960-1616 | | 12 |
| 96 | LOWER GLIDE | MS20364-1614C | | 12 |
| 97 | CAPSCREW | 76K03245-1 | İ | 1 |
| 98 | WASHER, BEVEL | MS90727-10 | | 16 |
| 99 | BRACKET ASSEMBLY (SHOWN) | NAS1099-4 | | 8 |
| į | BRACKET ASSEMBLY (OPPOSITE) | 76K03266-1 | | 2 |
| 100 | CAPSCREW | 76K03266-2 | | 2 |
| 101 | BUMPER ASSEMBLY | MS90727-7 76K03267-1 | | 10 |
| 102 | SPACER | 76K03569-1 | | 2 |
| 103 | CLAMP (81646) | 5656 | | 1 |
| 104 | TUBE, VERTICAL SLIDE | 76K03246-1 | | 1 |
| 105 | CAPSCREW | MS16998-73 | | 1 |
| 106 | CLIP ANGLE | 76K03275-1 | | 12 |
| 107 | FLANGE | 76K03737-1 | | 1 |
| 108 | NUT, LOCK | NAS1022-A10 | | 1 |
| 109 | WASHER, FLAT | AN960-1016 | | 6 |
| 110 | SPACER | 76K03224-1 | 1 | 6 |
| 111 | CAM FOLLOWER (92569) | CF-1-1/2-S | 1 | 6 |
| 112 | SHIM | 76K03229-1 | 1 | 6 |

Figure 7-6. LES Coupler Assembly (Sheet 8 of 9)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|--|---|--|-------------------------|--|
| 113 114 115 116 117 118 | ROLLER ASSEMBLY SCREW KEEPER PLATE SPRING STOP BAR ASSEMBLY PIN | 76K03225-1 MS35206-263 76K03276-1 MS24585-378 76K03259-1 MS20392-5C87 | | 4 6 3 3 1 1 3 |
| *REFEF | to section v | | | |
| REF: 7 | 6K03242 | | | |
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Figure 7-6. LES Coupler Assembly (Sheet 9 of 9)

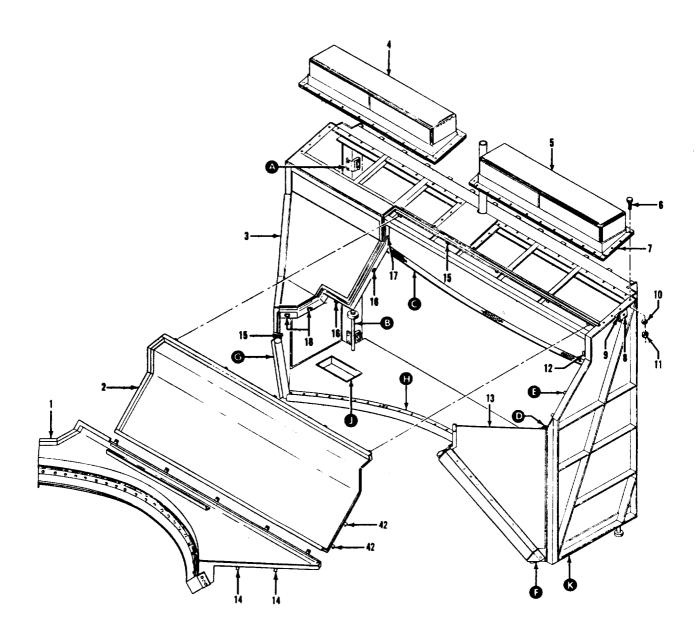


Figure 7-7. Hood Adapter Assembly (Sheet 1 of 6)

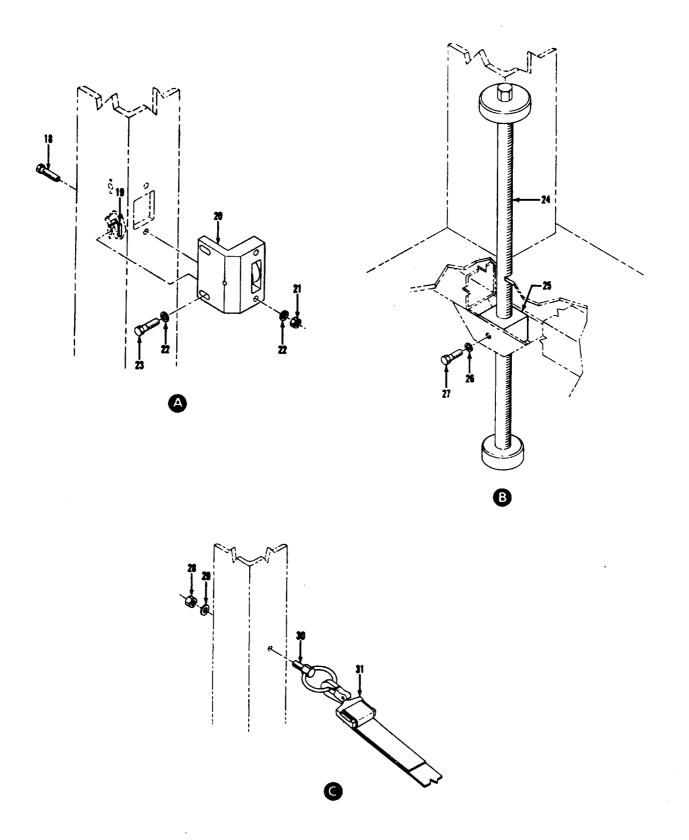


Figure 7-7. Hood Adapter Assembly (Sheet 2 of 6)

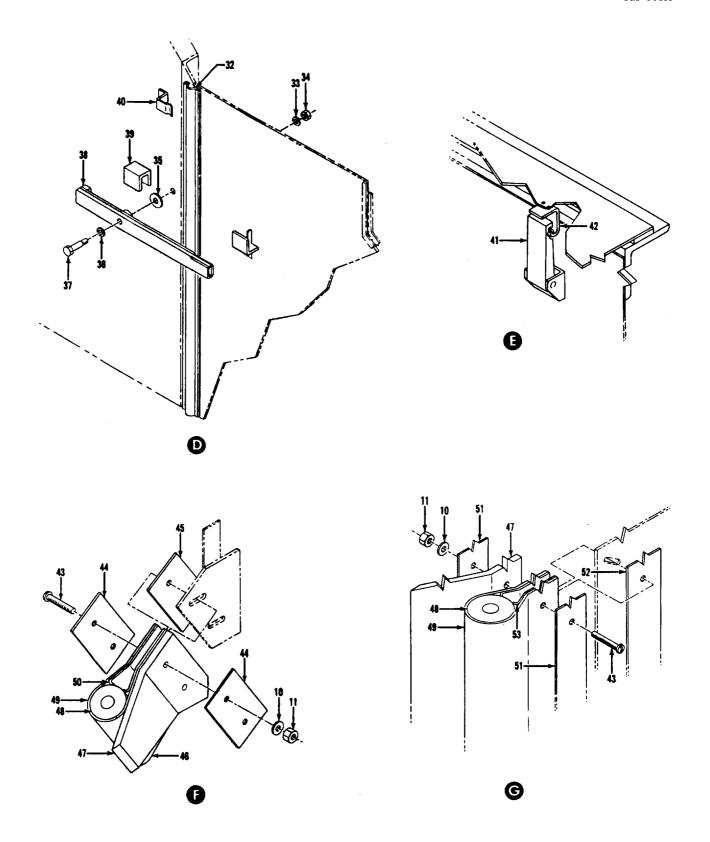
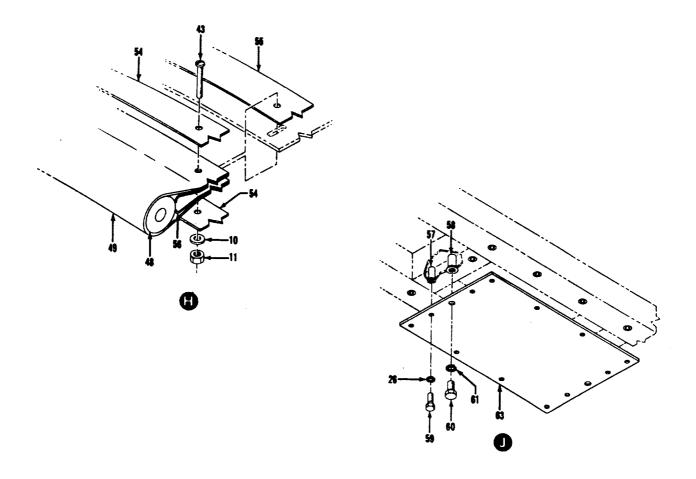


Figure 7-7. Hood Adapter Assembly (Sheet 3 of 6)



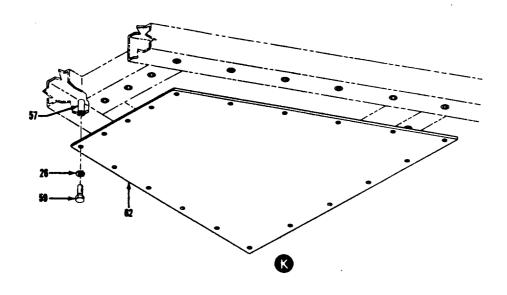


Figure 7-7. Hood Adapter Assembly (Sheet 4 of 6)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER |
|-----------------|------------------------------|---------------------------|-------------------------|------------|
| | ADAPTER ASSEMBLY | | | |
| 1 | PANEL. TOP, SEAL ASSEMBLY | 76K03290-1 | | х |
| 2 | PANEL ASSEMBLY TOP | 76K03299-1 | | 1 |
| 3 | ADAPTER SKIN ASSEMBLY | 76K03296-1 | | 1 |
| 4 | LIGHTING BOX ASSEMBLY | 76K03291-1 | | 1 |
| 5 | LIGHTING BOX ASSEMBLY | 76K03663-1 | | 1 |
| 6 | SCREW | 76K03656-1 MS35207-265 | • | 1 |
| 7 | GASKET | 76K03668-1 | | 56 |
| 8 | BRACKET | 76K03325-1 | | 2 |
| 9 | CAPSCREW | MS90727-8 | | 1 |
| 10 | WASHER | AN960-10L | | 2 |
| 11 | NUT | MS21045-3 | | 104 |
| 12 | LATCH CLIP | 76K03324-2 | | 104 |
| 13 | PANEL ASSEMBLY, SIDE | 76K03308-1 | | 1 |
| 14 | LATCH CLIP | 76K03320-1 | | 1 2 |
| 15 | LATCH CLIP | 76K03321-1 | | 12 |
| 16 | LATCH CLIP | 76K03323-1 | | 4 |
| 17 | LATCH CLIP | 76K03324-1 | | 1 |
| 18 19 | BOLT | 76K03336-1 | | 8 |
| 20 | NUT PLATE | NAS1031-P4 | | 8 |
| 21 | ROLLER ASSEMBLY, SIDE | 76K03332-1 | | 4 |
| 22 | NUT | MS21045-4 | | 10 |
| 23 | WASHER CAPSCREW | AN960-416 | | 18 |
| 24 | JACK SCREW | MS90727-10 | | 8 |
| 25 | BLOCK | 76K03318-1 | | 2 |
| 26 | WASHER | 76K03319-1 | | 2 |
| 27 | CAPSCREW | MS35338-44 | | 3 3 |
| 28 | NUT | MS90725-3 | | 2 |
| 29 | WASHER | MS21045-6 | | 2 |
| 30 | FASTENER (98313) | AN960-616 | | 2 |
| 31 | STRAP ASSEMBLY | FDA-1658-3 76K03331-1 | | 2 |
| 32 | RETAINER STRIP | 76K03311-1 | | 1 |
| 33 | WASHER | AN960-716L | | 1 1 |
| 34 | NUT | MS21045-7 | | 1 |
| 35 | SPACER, TEFLON | 76K03327-1 | | 1 |
| 36 | WASHER | AN960-816L | | 1 |
| 37 | BOLT, SHOULDER | NAS1297-7-24 | ĺ | 1 |
| 38 39 | LOCK BAR ASSEMBLY | 76K03326-1 | į | 1 |
| 40 | BRACKET | 76K03328-1 | | ĩ |
| 41 | RETAINER BRACKET | 76K03329-1 | | ī |
| 42 | LATCH ASSEMBLY (71286) | 51L1-1-1AA | | 2 |
| 43 | LATCH CLIP MACHINE SCREW | 76K03322-1 | | 2 |
| 44 | RETAINER STRIP | KC102-68 | ľ | 48 |
| 45 | RETAINER STRIP | 76K03303-4 | | 2 |
| 46 | LACING TWINE, UNWAXED | 76K03307-4 | | 1 |
| | (MIL-T-713, TYPE P, CLASS 3) | 76K03290-4 | | A/R |
| 47 | SEAL SEAL | 761/02200 2 | | |
| 48 | PLASTIC FOAM (70622) | 76K03290-3 | 1 | A/R |
| | () | HH-I-573 CLASS T | | A/R |
| 49 | SEAL | 76K03290-2 | | . /_ |
| 50 | BACKUP STRIP | 76K03306-4 | 1 | A/R |
| 51 | RETAINER STRIP | 76K03303-2 | İ | 2 |
| 52 | RETAINING STRIP | 76K03307-2 | Ì | 2 |
| 53 | BACKUP STRIP | 76K03306-2 | | 2 |
| 54 | RETAINER | 76K03317-1 | | 8 |
| 55 | SPACER PLATE | 76K03340-1 | | 4 |
| 56 | RETAINER | | | |

Figure 7-7. Hood Adapter Assembly (Sheet 5 of 6)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|--|---|---|-------------------------|-----------------------------------|
| 57 58 59 60 61 62 63 | NUT, BLIND RIVET NUT, BLIND RIVET CAPSCREW CAPSCREW WASHER BULKHEAD PLATE (ACE) BULKHEAD PLATE (PYRO) | NAS1330S4K151 NAS1330S6K211 MS90727-6 MS90727-58 MS35338-46 76K03315-1 76K03330-1 | | 31 2 31 2 2 1 1 |
| REF: | 76K03290 REV A, EO 1 | | | |
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Figure 7-7. Hood Adapter Assembly (Sheet 6 of 6)

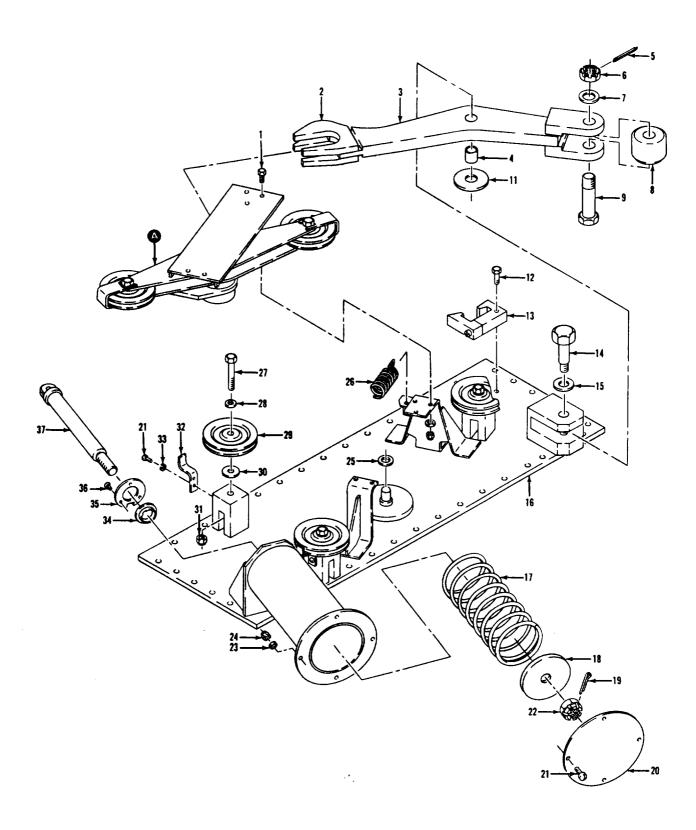


Figure 7-8. Centering Device Actuator Assembly (Sheet 1 of 3) $\,$

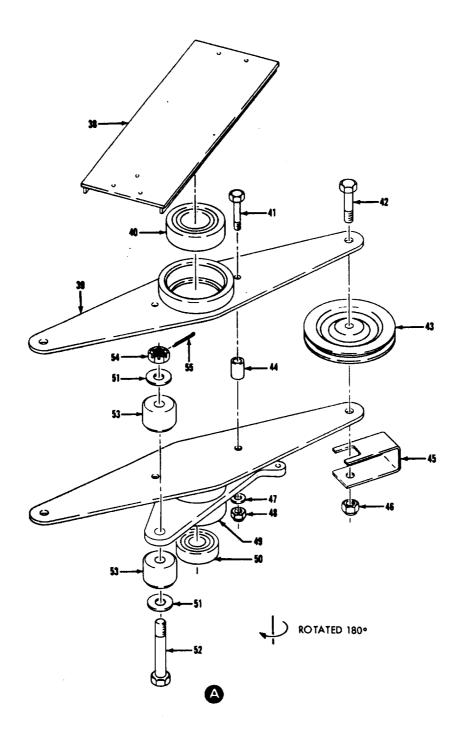


Figure 7-8. Centering Device Actuator Assembly (Sheet 2 of 3)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|-----------------|-------------------------------------|---------------------------|-------------------------|-----------------------|
| | ACTUATOD ASSEMBLY | TOYTODOO! | | |
| 1 | ACTUATOR ASSEMBLY BOLT | 76K03381-1 | | X |
| 1 | ARM ASSEMBLY | AN3C5A | | 5 |
| 2 | PLATE, GUIDE | 76K03542-1 76K03542-4 | | 1 |
| 3 | ARM | 76K03542-4 | | 2 |
| 4 | BEARING (71041) | 61014-6 | | 1 |
| 5 | PIN, COTTER | MS24665-355 | | 1 |
| 6 | NUT, CASTLE, SHEAR | AN3 20 C 10 | | 1 1 |
| 7 | WASHER | AN960C1016 | | 1 |
| 8 | BEARING (92563) | CYR-2-S | | i |
| 9 | BOLT, SHEAR | NAS464-10L36 | | i |
| 10 | PLATE, BEARING | 76K03542-3 | | 2 |
| 11 | WASHER | 76K03543-2 | | 1 |
| 12 | BOLT | AN3-11A | | î |
| 13 | FIXTURE ASSEMBLY | 76K03503-1 | | î |
| 14 | BOLT, SHOULDER | 76K03544-1 | | l i |
| 15 | WASHER, FLAT | AN960C1016 | | ī |
| 16 | ACTUATOR BASE | 76K03520-1 | | 1 |
| 17 | SPRING | 76K03533-1 | | 1 |
| 18 | STOP | 76K03532-1 | | 1 |
| 19 | PIN, COTTER | MS24665-353 | | 1 |
| 20 | COVER | 76K03531-1 | | 1 |
| 21 | SCREW | KC102-63 | | 10 |
| 22 | NUT, CASTELLATED | AN310-10 | | 1 |
| 23 | WASHER, FLAT | AN960C10 | | 4 |
| 24 | NUT, SELF LOCKING | MS21045C3 | | 9 |
| 25 | SHIM | 76K03703-1 | | A/R |
| 26 | SPRING, EXTENSION | 76K03536-1 | | 1 |
| 27 | BOLT, SHEAR | NAS464-5LA26 | | 3 |
| 28 | WASHER, FLAT, LIGHT | AN960C10L | | 8 |
| 29 30 | PULLEY | MS20220A2 | | 3 3 |
| 31 | WASHER | 76K03543-1 | | |
| 32 | NUT, SELF LOCKING, THIN RETAINER | MS21042-5 | | 3 3 |
| 33 | LOCKWASHER | 76K03535-1 | | 6 |
| 34 | BUSHING | MS35338-138 76K03497-1 | | 1 |
| 35 | RETAINER, BUSHING | 76K03498-1 | | 1 1 |
| 36 | SCREW 100° CSK | KC149-14 | | 3 |
| 37 | EYEBOLT | 76K03534-1 | | 1 |
| | PULLEY ASSEMBLY | 76K03537-1 | | i |
| 38 | POST ASSEMBLY | 76K03538-1 | | i |
| 39 | BRACKET ASSEMBLY | 76K03539-1 | | ī |
| 40 | BEARING (43334) | 3205 | | ī |
| 41 | BOLT | NAS464-4LA14 | | 2 |
| 42 | BOLT | NAS464-5LA15 | | 2 |
| 43 | PULLEY | MS20220A5 | | 2 |
| 44 | SPACER | 76K03496-1 | | 2 |
| 45 | CABLE RETAINER | 76K03541-1 | | 2 |
| 46 | NUT | MS21044-C5 | | 2 |
| 47 | WASHER | AN960C416 | | 2 |
| 48 | NUT | MS21044-C4 | | 2 |
| 49 | CRANK ASSEMBLY | 76K03540-1 | | 1 |
| 50 | BEARING (43334) | 3202 | | 1 |
| 51 | WASHER | MS27183-14 | | 2 |
| 52 | BOLT, SHEAR | NAS464-6L31 | | 1 |
| 53 | BEARING (92563) | CYR-1-1/4-S | | 2 |
| 54 | NUT, CASTLE, SHEAR | AN320C6 | | 1 |
| 55 | PIN, COTTER | MS24665-283 | | 1 |
| REF: 7 | 76K03381 | | | |

Figure 7-8. Centering Device Actuator Assembly (Sheet 3 of 3)

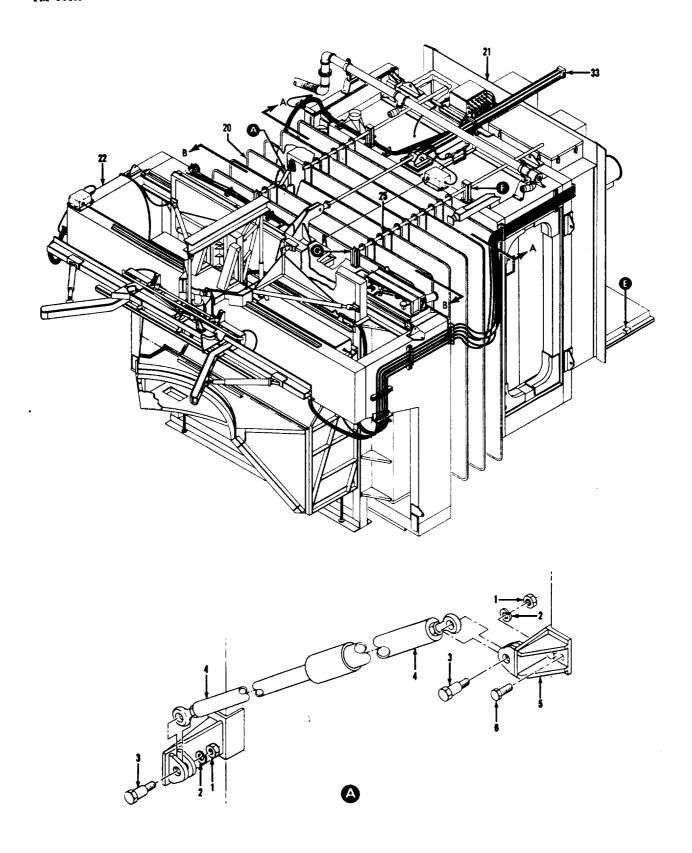


Figure 7-9. Environmental Chamber Structural and Mechanical Assembly (Sheet 1 of 4)

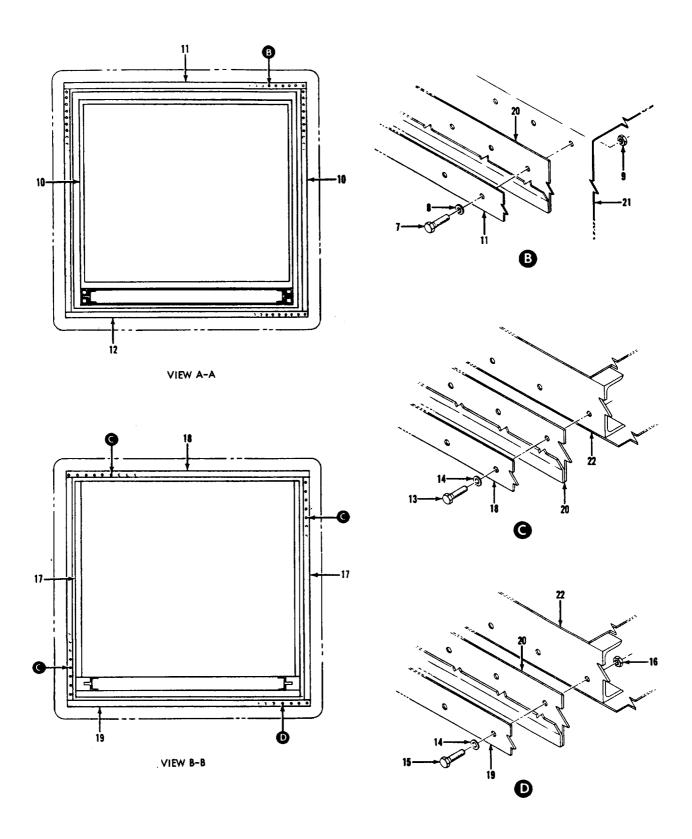
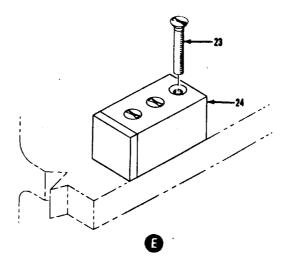


Figure 7-9. Environmental Chamber Structural and Mechanical Assembly (Sheet 2 of 4)



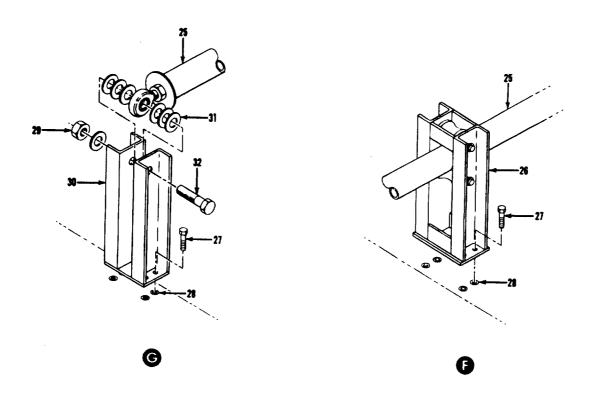


Figure 7-9. Environmental Chamber Structural and Mechanical Assembly (Sheet 3 of 4)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PÄRT NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|---|---|-------------------------|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31 | STRUCTURAL AND MECHANICAL ASSEMBLY NUT WASHER SHOULDER BOLT TUBE ASSEMBLY, GUARDRAIL HINGE BRACKET BLIND BOLT (73197) BOLT WASHER NUT BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BOLT WASHER BOLT NUT BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BELLOWS RETAINING STRIP BELLOWS ASSEMBLY CHAMBER STRUCTURAL ASSEMBLY EXTENSION PLATFORM ASSEMBLY SCREW STOP ROD ASSEMBLY ROLLER BRACKET ASSEMBLY BOLT BLIND NUT ASSEMBLY (73197) NUT BRACKET WASHER BOLT CYLINDER ASSEMBLY | 76K03412-2 MS35691-17 MS35338-27 MS21301-27 76K03758-1 76K03757-1 BB352-8-5 AN3-4A AN960-10L MS21044N3 76K03765-2 76K03765-1 76K03766-1 MS90727-7 AN960-416L MS90727-6 MS21044N4 76K03767-2 76K03767-1 76K03767-1 76K03764-1 76K03764-1 76K03763-1 76K03763-1 76K03763-1 76K03763-1 76K03763-1 76K03763-1 76K03763-1 76K03763-1 76K03752-1 76K03620-1 76K03185-1 MS20073-03-06 BN359-1032-3 MS21044N8 76K03619-1 AN960-816 AN8-21A 76K03778-1 | | X 4 4 4 4 2 2 4 140 140 140 140 2 1 1 80 106 26 26 2 1 1 1 1 6 2 2 16 16 16 2 2 14 2 1 |
| REF: 76 | 6K03412 REV A, EO's 1, 4, 5, 6 | | | |

Figure 7-9. Environmental Chamber Structural and Mechanical Assembly (Sheet 4 of 4)

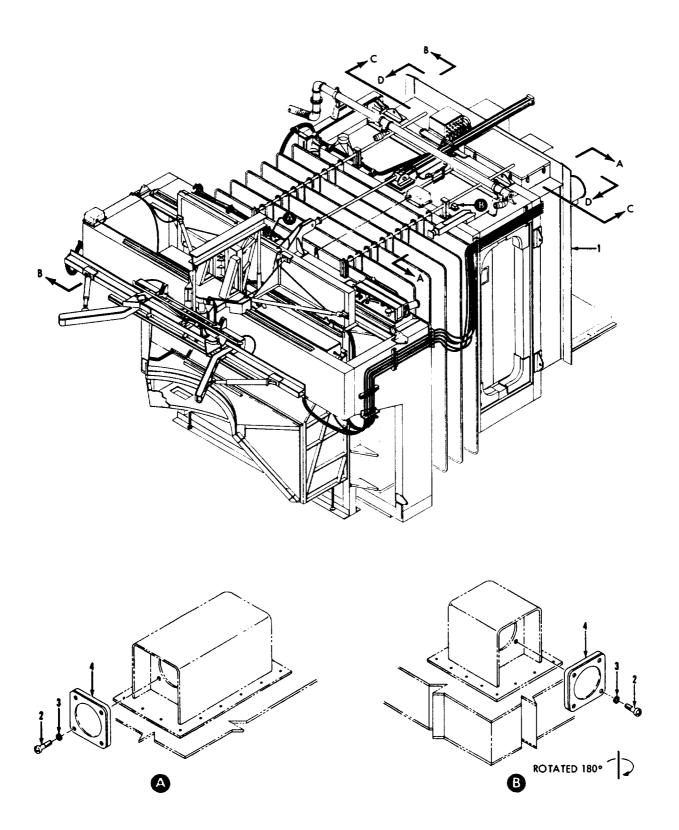


Figure 7-10. Equipment Installation (Sheet 1 of 25)

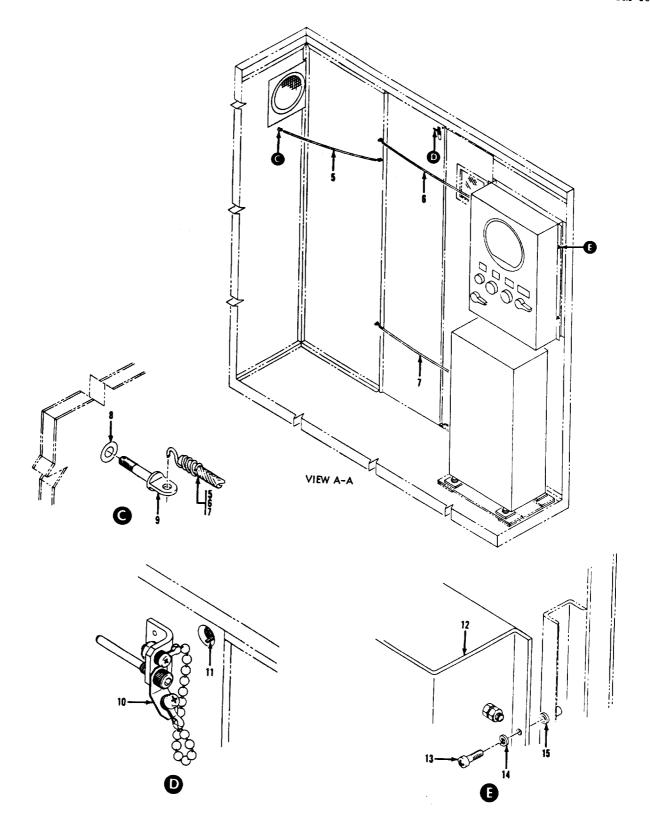


Figure 7-10. Equipment Installation (Sheet 2 of 25)

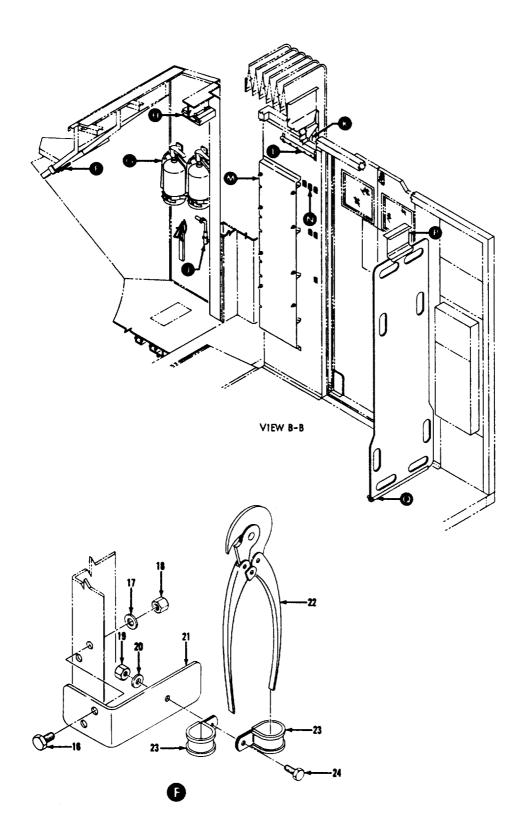


Figure 7-10. Equipment Installation (Sheet 3 of 25)

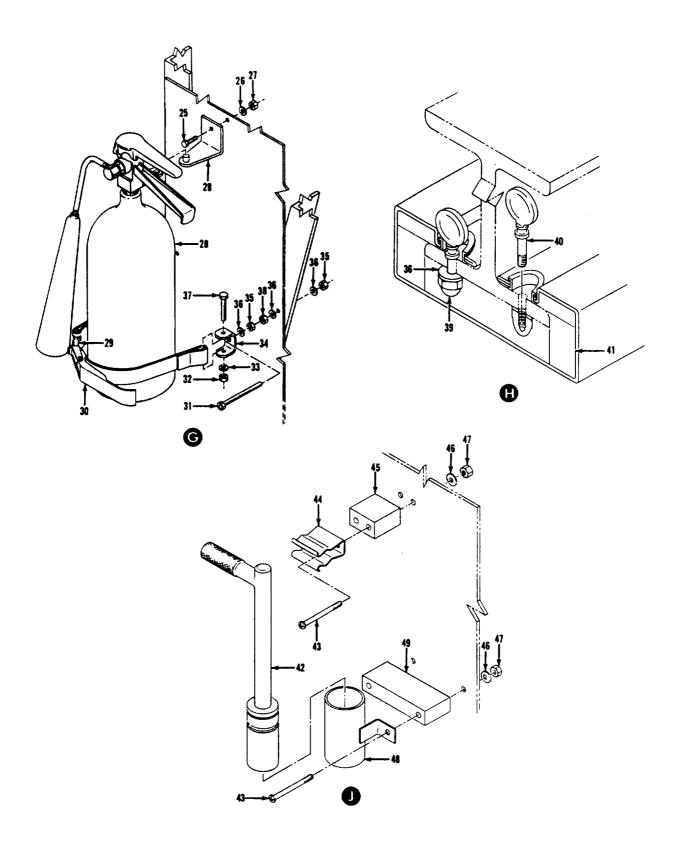


Figure 7-10. Equipment Installation (Sheet 4 of 25)

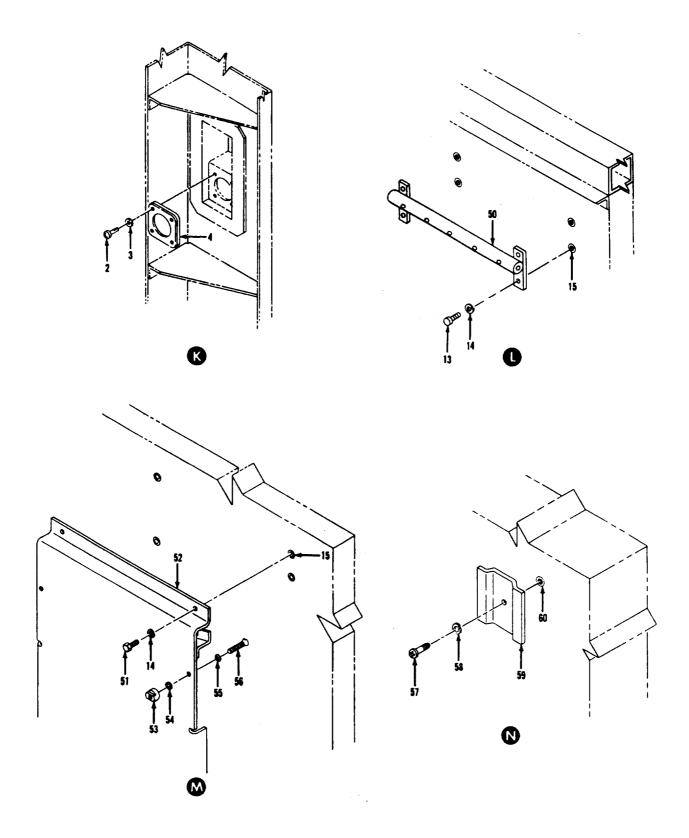
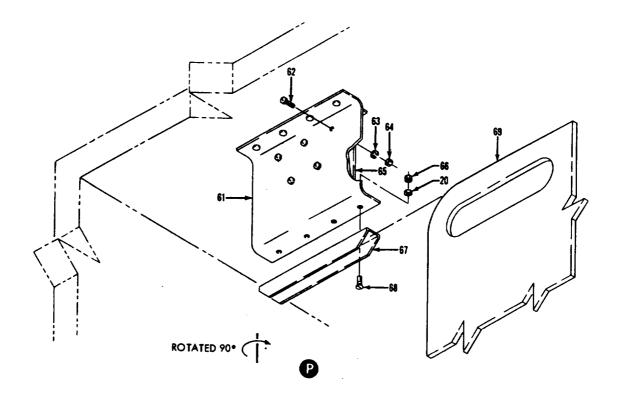


Figure 7-10. Equipment Installation (Sheet 5 of 25)



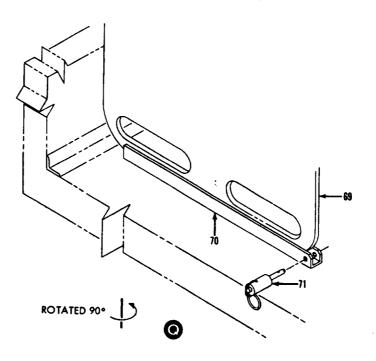


Figure 7-10. Equipment Installation (Sheet 6 of 25)

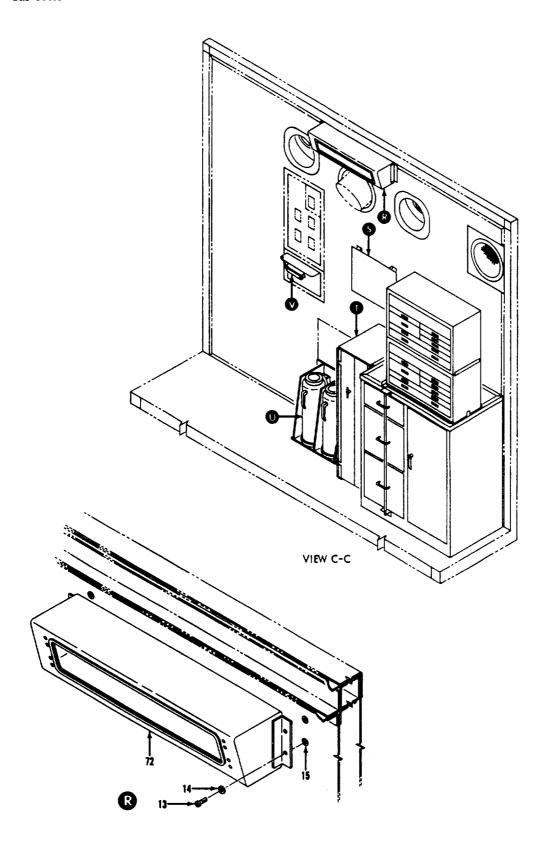


Figure 7-10. Equipment Installation (Sheet 7 of 25)

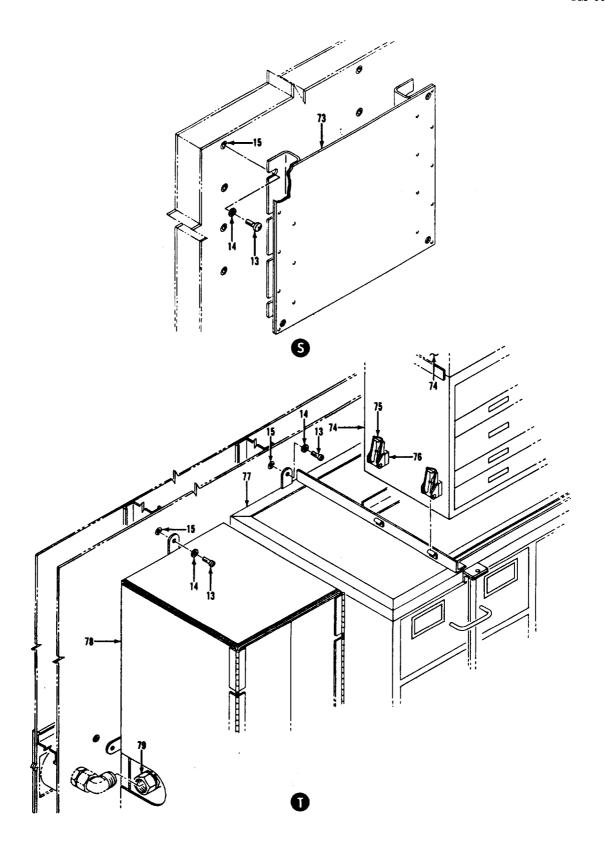
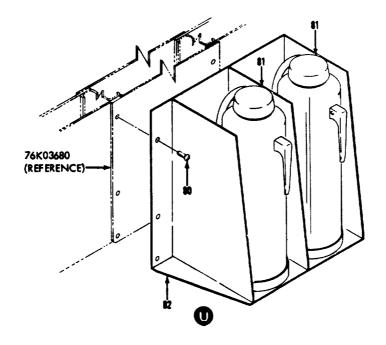
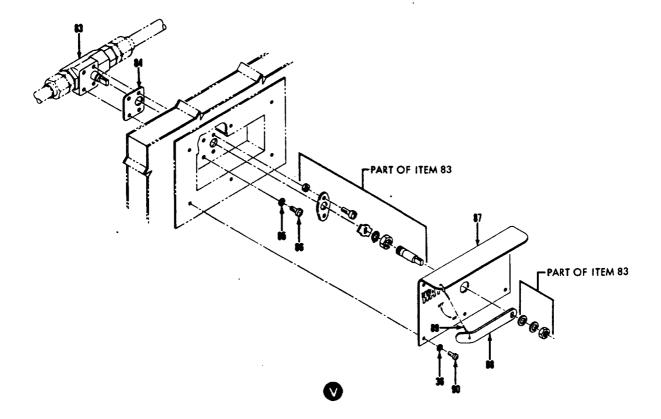


Figure 7-10. Equipment Installation (Sheet 8 of 25)





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Figure 7-10. Equipment Installation (Sheet 9 of 25)

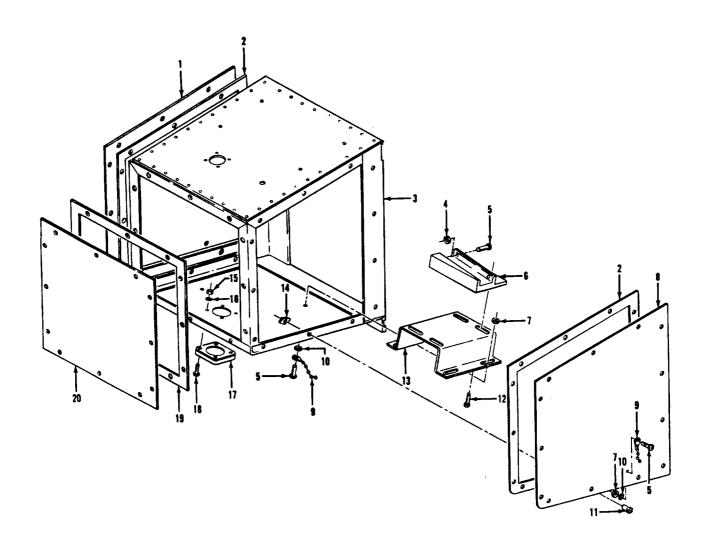
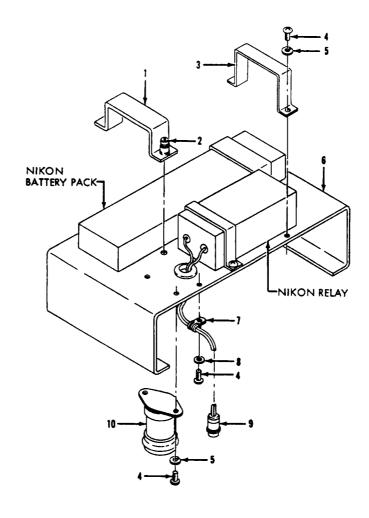


Figure 7-11. Still Camera Enclosure (Sheet 1 of 2)

| NUMBER | 1 2 3 4 DESCRIPTION | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER |
|---|--|--|-------------------------|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | STILL CAMERA ENCLOSURE ASSEMBLY PANEL SIDE GASKET ENCLOSURE SUB ASSEMBLY NUT SCREW BRACKET CAMERA MOUNTING NUT, LOCK PANEL, SIDE CHAIN, BEAD WASHER, FLAT SCREW, FASTNER (24248) SCREW, MACHINE BRACKET NUT, PLATE NUT, LOCK WASHER, FLAT BLEED PLATE SCREW GASKET PANEL, REAR | 76K03591-1 76K03463-2 76K03437-1 76K03432-1 MS25082-3 MS51958-66 76K03462-1 MS21044N3 76K03463-1 NAS1201C13A22B AN960-10 54-36-714-24 KC147-90 76K03456-1 NAS1031P3 MS21044N04 AN960-4 75M02047 MS51957-19 76K03438-2 76K03464-1 | | * 1 2 1 2 9 1 7 1 3 7 38 2 1 38 4 4 1 4 1 |
| REF: 761 | K03591 | | 1. | 1 |
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Figure 7-11. Still Camera Enclosure (Sheet 2 of 2)



| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|---|---|-------------------------|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 REF: | CHASSIS ASSEMBLY BRACKET ASSEMBLY SCREW, PANEL CAPTIVE (94222) BRACKET SCREW LOCKWASHER CHASSIS ASSEMBLY NUT, SELF LOCKING CLAMP WASHER HARNESS ASSEMBLY RELAY (61775) GROMMET, RUBBER WIRE | 76K03081-1 76K03081-3 54-58-106-24 76K03081-4 MS51957-26 MS35338-136 76K03081-2 NAS1031-C06 MS21919D4 AN960C6 76K03861-12 JACTLP6H MS35490-34 B-16 WHITE | | X 2 4 2 7 7 1 4 1 1 1 1 1 A/R |

Figure 7-12. Still Camera Control Chassis

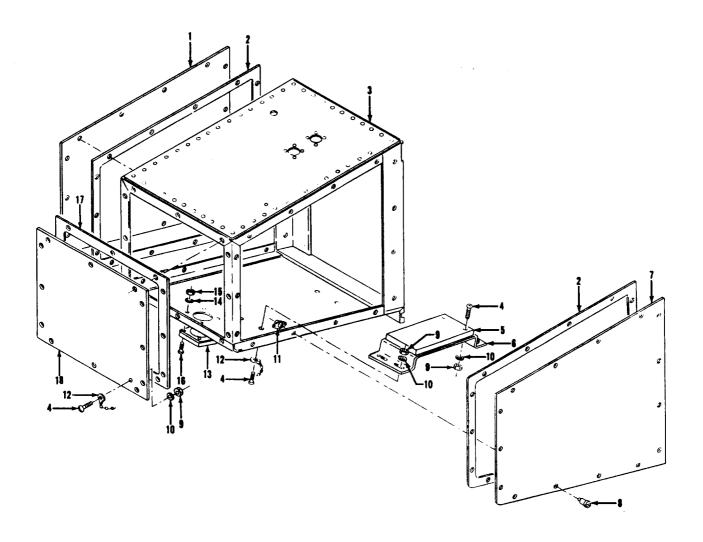


Figure 7-13. Movie Camera Enclosure (Sheet 1 of 2)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|--|---|-------------------------|--|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | MOVIE CAMERA ENCLOSURE ASSEMBLY PANEL GASKET ENCLOSURE SUB ASSEMBLY SCREW MOUNT ASSEMBLY (40998) BRACKET PANEL SCREW, FASTENER (24248) NUT, LOCK WASHER NUT, PLATE CHAIN, BEAD BLEED PLATE WASHER NUT, LOCK SCREW GASKET PANEL | 76K03592-1 76K03453-2 76K03444-1 76K03439-1 MS51958-66 QRM-16 76K03457-1 76K03453-1 54-36-714-24 MS21044N3 AN960-10 NAS103 P3 NAS1201C13A22B 75M02047 AN960-4 MS21044N04 MS51957-19 76K03438-1 76K03454-1 | | X 1 2 1 11 1 1 1 42 11 11 42 3 1 4 4 4 4 1 |
| REF: 7 | 76K03592 | | | |
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Figure 7-13. Movie Camera Enclosure (Sheet 2 of 2)

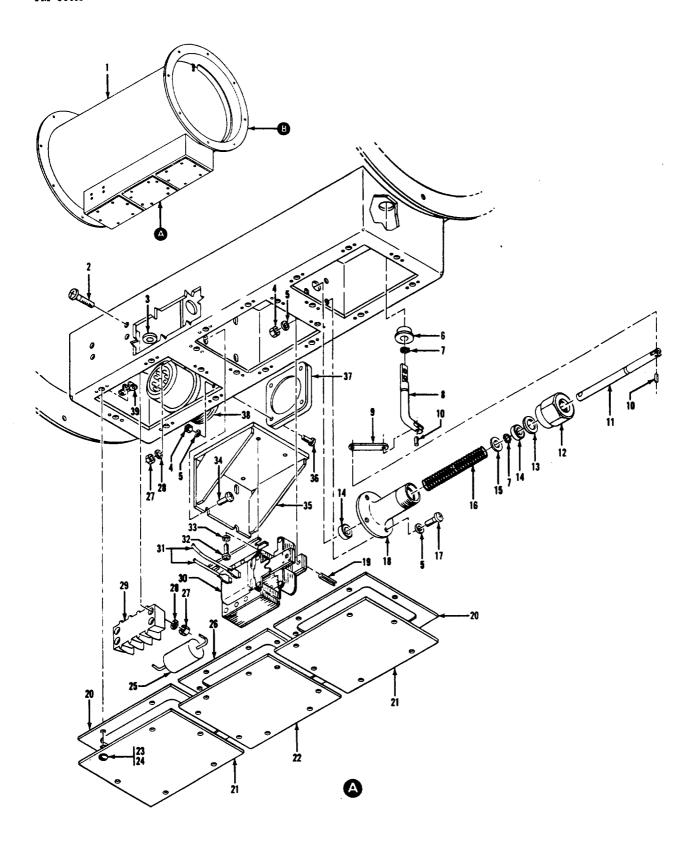
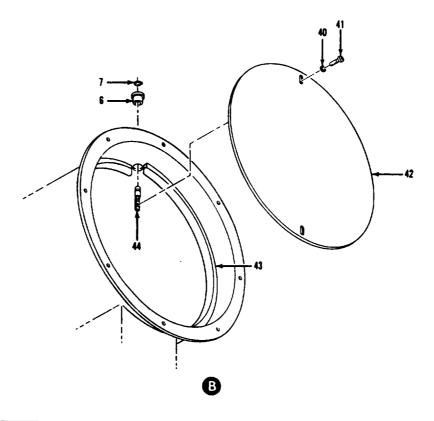


Figure 7-14. Exhaust Duct Assembly (Sheet 1 of 3)



| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|-----------------|-----------------------|--------------|-------------------------|---------------------------------------|
| | EXHAUST DUCT ASSEMBLY | 76K03092-1 | | x |
| 1 | EXHAUST DUCT | 76K03092-1 | | 1 1 |
| 2 | SCREW | MS51957-31 | | 1 |
| 3 | GROMMET, RUBBER | MS35490-29 | | 1 |
| 4 | NUT NUT | MS21044N04 | | 8 |
| 5 | WASHER | AN960-4 | | 12 |
| 6 | BUSHING | 76K03099-1 | | 2 |
| 7 | RETAINING RING | MS16632-1025 | | 3 |
| 8 | SHAFT | 76K03096-1 | | 1 1 |
| 9 | LINKAGE | 76K03102-1 | | 1 1 |
| 10 | PIN | MS9048-003 | | 9 |
| ii | SHAFT | 76K03098-1 | | 1 |
| 12 | NUT, COUPLING | KC142D8 | | 1 |
| 13 | SPACER | 76K03101-1 | | 1 1 |
| 14 | BUSHING | 76K03100-1 | | 2 |
| 15 | RETAINER, SPRING | 76K03571-1 | | ī |
| 16 | SPRING | 76K03108-1 | | ī |
| 17 | SCREW | MS51957-16 | | 4 |
| 18 | HOUSING | 76K03095-1 | | l i |
| 19 | PIN | MS9048-102 | | i |
| 20 | GASKET | 76K03106-1 | | 2 |
| 21 | PLATE, COVER | 76K03105-1 | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| 22 | PLATE, COVER | 76K03103-1 | | 1 |
| 23 | STUD ASSEMBLY (71286) | 5827-12 | | 20 |

Figure 7-14. Exhaust Duct Assembly (Sheet 2 of 3)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|--|---|---|-------------------------|---|
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 | WASHER, RETAINING (71286) CAPACITOR (56289) GASKET NUT WASHER TERMINAL BLOCK TERMINAL LUG TERMINAL LUG TERMINAL LUG SOLENOID (73949) WIRE SCREW WASHER SCREW BRACKET SCREW PURGE PLATE HARNESS ASSEMBLY RECEPTACLE (71286) WASHER SCREW BAFFLE SEAL SHAFT | 5S3-1 156 P-25-400 76K03104-1 MS21044N06 AN960-6 75M14964-3 MS25036-6 MS25936-11 18AC M5086/2-14-9 MS51958-62 MS35338-43 MS51057-28 76K03111-1 MS51957-18 75M02047 76K03109-6 5R2-3 MS35338-39 MS51957-3 76K03094-1 76K03107-1 76K03097-1 | DESIGNATOR | 20 1 1 8 8 8 1 3 2 3 1 A/R 4 4 4 1 1 20 4 1 1 2 1 |
| | | | | |

Figure 7-14. Exhaust Duct Assembly (Sheet 3 of 3)

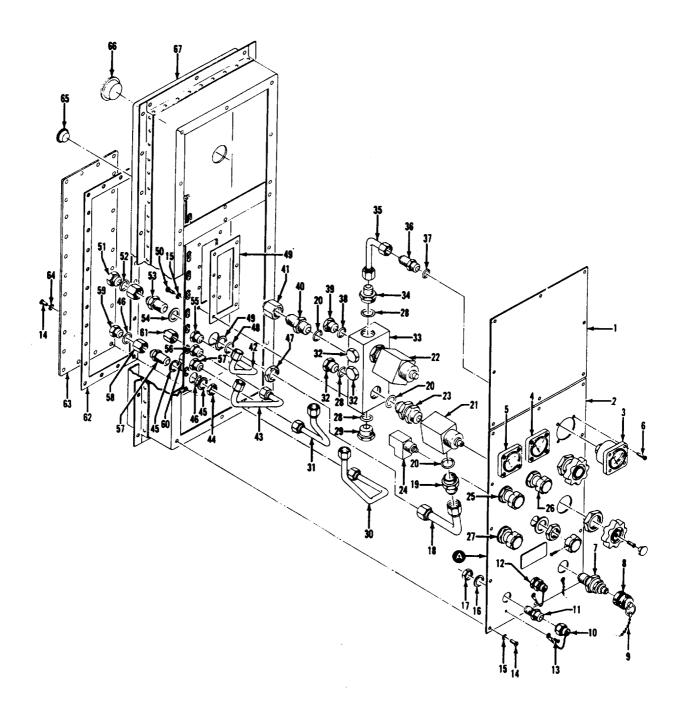


Figure 7-15. GOX Module Assembly (Sheet 1 of 4)

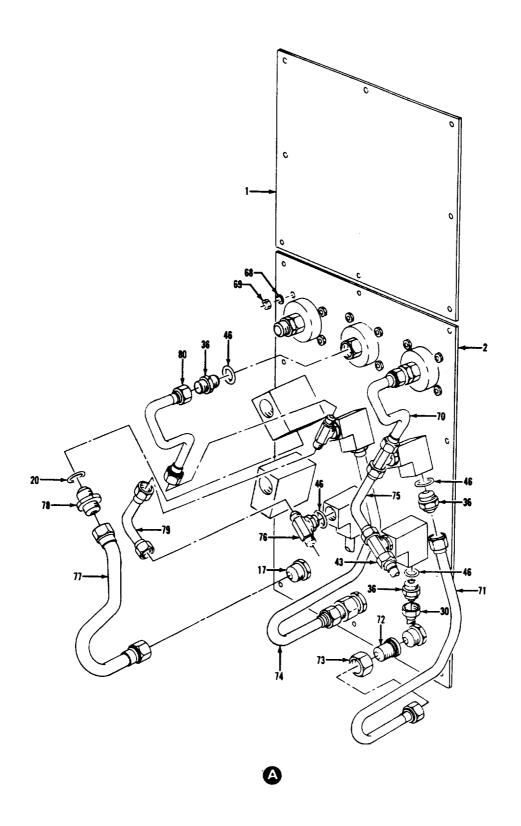


Figure 7-15. GOX Module Assembly (Sheet 2 of 4)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PE ASSEMBL |
|-----------------|---------------------|-----------------|-------------------------|--|
| | | HOTEL CO. L. C. | | |
| _ | GOX MODULE | 76K12341-2 | 57A55A11 | X |
| 1 | COVER PLATE | 76K30202-1 | | 1 |
| 2 | PANEL | 76K12341-4 | | 1 |
| 3 | GAGE | 75M51088-4 | A16039 | 1 |
| 4 | GAGE | 75M51088-4 | A16049 | 1 |
| 5 | GAGE | 75M51088-4 | A16056 | 1 |
| 6 | SCREW | KC101-47 | | 12 |
| 7 | NIPPLE | 75M51323-3 | A16041 | 1 |
| 8 | DUST CAP | 75M51324-3 | | 1 |
| 9 | CHAIN | NAS1201C10A138 | | 1 |
| 10 | CAP ASSEMBLY | 75M50450-3 | | 2 |
| 11 | UNION | MC164C8 | A16059 | 1 |
| 12 | UNION | MC164C8 | A16052 | 1 |
| 13 | DRIVE SCREW | MS21318-46 | | 3 |
| 14 | SCREW | KC102-64 | 1 | 46 |
| 15 | WASHER | NAS620-10L | | 28 |
| 16 | WASHER | AN960C1216L | 1 | 3 |
| 17 | NUT | MC174C8 | } | 3 |
| 18 | TUBE ASSEMBLY | 76K12409-17 | | 1 |
| 19 | ADAPTER | MC242C19 | 1 | 1 |
| 20 | PACKING (83259) | 3-12 77-545 | Ì | 5 |
| 21 | VALVE | 75M51322 | A16045 | 1 |
| 22 | VALVE | 75M51322 | A16040 | 1 |
| 23 | UNION | MC241C12 | | 1 2 |
| 24 | VALVE | 75M01305-1 | A16050 | 1 |
| 25 | VALVE | 75M01305-1 | A16058 | 1 |
| 26 | VALVE | 75M01305-1 | A16051 | 1 |
| 27 | VALVE | 75M01305-1 | A16057 | 1 |
| 28 | PACKING (83259) | 3-877-545 | | 6 |
| 29 | PLUG | MC159C8 | | 1 |
| 30 | TUBE ASSEMBLY | 76K12409-11 | | 1 |
| 31 | TUBE ASSEMBLY | 76K12409-13 | | <u>1</u> |
| 32 | PLUG | KC130C8 | A16038 | 3 |
| 33 | MANIFOLD | 76K12405-1 | A16037 | 1 |
| 34 | ADAPTER | MC242C11 | , | 1 |
| 35 | TUBE ASSEMBLY | 76K12409-1 | | 1 1 |
| 36 | UNION | MC237C4 | | 7 |
| 37 | PACKING (83259) | 3-4 77-545 | | i |
| 38 | PACKING | MS28778-6 | | i |
| 39 | PLUG | KC130C6 | A16036 | i |
| 40 | UNION | MC237C12 | A16035 | i |
| 41 | DUST CAP | MC177C12 | 111000 | 1 |
| 42 | TUBE ASSEMBLY | 76K12409-15 | 1 | 1 |
| 43 | TUBE ASSEMBLY | 76K12409-9 | | 1 |
| 44 | NUT | MC174C4 | | 4 |
| 45 | WASHER | AN960716L | | 8 |
| 46 | PACKING | MC266E904 | 1 | 16 |
| 47 | NUT | MC174C6 | | 1 |
| 48 | PACKING (83259) | 3-6 77-545 | | 2 |
| 49 | GASKET | 75M12407-1 | | 1 |
| 50 | SCREW | KC102-61 | | 8 |
| 51 | VALVE | 75M51630-634 | A16047 | ı |
| 52 | COUPLING | MC573C4 | 1110031 | 2 |
| 53 | UNION | MC164C6 | 1 | 1 |
| 54 | WASHER | AN960C916L | | 2 |
| 55 | UNION | MC164C4 | A16048 | 1 |
| ລລ | | | | |

Figure 7-15. GOX Module Assembly (Sheet 3 of 4)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|---|---|-------------------------|---|
| 56 57 58 59 60 61 62 63 64 65 66 67 71 72 73 74 75 77 78 80 REF: 70 | UNION UNION COUPLING VALVE VALVE UNIT CAP GASKET ACCESS PANEL STAT-O-SEAL (83259) PLUG (99017) PLUG (99017) EQUIPMENT CASE WASHER NUT TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY TUBE ASSEMBLY | MC164C4 MC164C4 MC573C4 75M51630-434 75M51630-434 MC177C4 75M12417-1 76K12404-1 7000-1005 WW-11 WW-210 76K12345-1 NAS620-8L MS21042-08 76K12409-3 76K12409-7 MC247C8-4 MC124C8 76K12409-5 MC251C4N 76K12409-19 MC242C20 76K12409-23 76K12409-21 | A16055 A16061 A16054 | 1 2 2 1 1 2 6 1 1 1 2 2 1 1 1 2 2 1 1 1 1 |

Figure 7-15. GOX Module Assembly (Sheet 4 of 4)

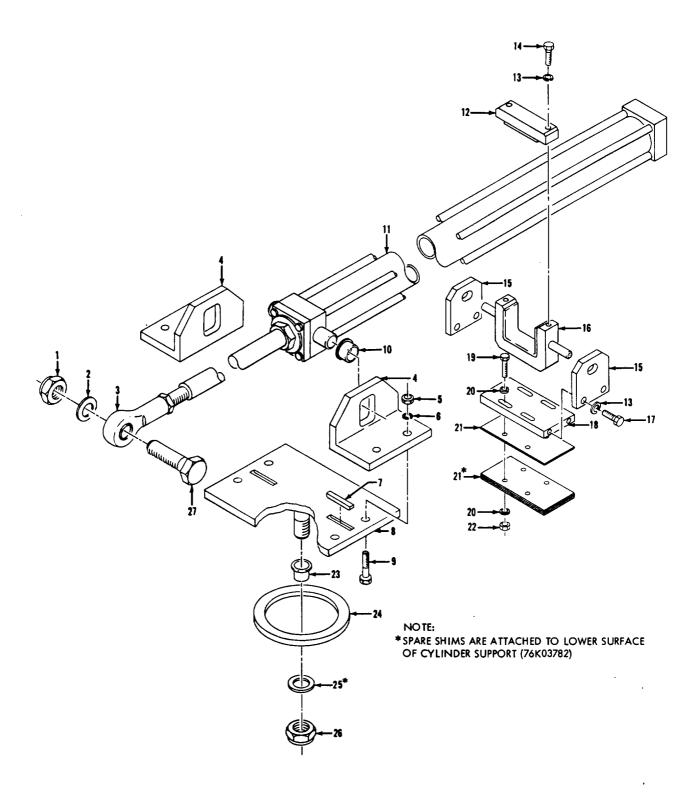


Figure 7-16. Platform Extend Cylinder Mount Assembly (Sheet 1 of 2)

| INDEX NUMBER | DESCRIPTION 1 2 3 4 | PART NUMBER | REFERENCE DESIGNATOR | UNITS PER ASSEMBLY |
|---|--|---|-------------------------|---|
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 REF: 7 | CYLINDER MOUNT ASSEMBLY NUT WASHER ROD END (83331) SWIVEL ASSEMBLY CLEVIS BRACKET NUT WASHER KEY SWIVEL PLATE BOLT BUSHING PNEUMATIC CYLINDER CAP ASSEMBLY LOCK WASHER CAP SCREW SWIVEL BRACKET YOKE ASSEMBLY CAP SCREW CLEVIS PLATE CAP SCREW WASHER SHIM NUT BUSHING THRUST WASHER WASHER NUT BOLT | 76K03778-1 MS20365D2012 AN960PD2016 BRE-20395 76K03784-1 76K03783-1 MS21044N8 AN960-816 MS20066-260 76K03745-1 MS90727-115 76K03780-1 MS35338-46 MS90727-63 76K03779-1 76K03781-1 MS90727-59 76K03785-1 MS90727-41 AN960-516 76K03772-1 76K03772-1 76K03742-1 76K03742-1 76K03743-1 MS20365D1614 AN20DD43 | A34952-9 | 1 1 1 1 1 1 2 4 4 2 1 1 6 2 2 1 4 1 1 1 1 1 1 |

Figure 7-16. Platform Extend Cylinder Mount Assembly (Sheet 2 of 2)